

X

PLANS SURVEY

EAST AVE.

From E. Minnehaha St. to Maryland St.

Ramsey County Project 27-75A

Road a/c No 75

File No 12

28-75

2875

Microfilm Ramsey Co. Plans
EST. PLAN. DIV.
Date Filed 2-24-27
File No. 12

East Ave. R4 % A 95.
Alignment on East Ave
From East Minnehaha St. to
Maryland St. Sta. 0+00 to Sta. 95+90.

|||

Received 2-15-27
C. H. [Signature]

Office of Ramsey Co. Engineer
ST. PAUL, MINN.

Date Filed 2-24-27
File No. 12

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Sta.	Point	Lt.	Rt.	Calc. Bearing	Mag. Bearing
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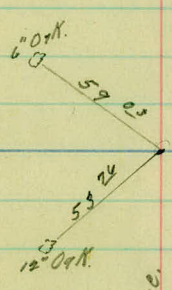
11+00	P.O.T.				
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5+00	P.O.T.				
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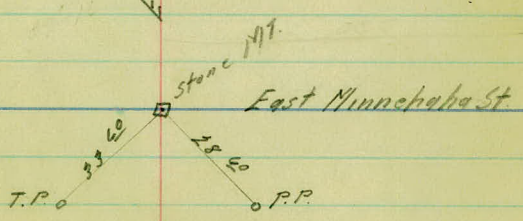
N 00° 00' E.

N 8° 30' W.

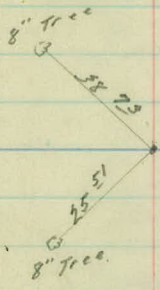
0+00					
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East Ave.



Sta.	Point	Lt.	Rt.	Calc. Bearing	Mag. Bearing
32+45 ¹⁵	P.O.T.			N. 89° 57' E. ✓	N. 81° 07' E.
28+02 ⁶⁷	P.T.		44°-48 ^E		
150			39°-32 ^E		
27			34°-52 ^E		
✓ -150			29°-32 ^E		
26+40 ⁶⁰	P.I.			A-89°-37' R.	
26			24°-32 ^E	D-20°	
150			19°-32 ^E	T-286 ⁰¹	✓
25			14°-32 ^E	L-448 ⁰⁸	✓
150			9°-32 ^E	R-287 ⁹⁴	✓
24			4°-32 ^E		
23+54 ⁵⁹	P.C.		0°-00'	N 00°-00' E	N 8°-50' W



Sta. Point Lt. Rt. Calc. May. Bearing Bearing

56+00 P.O.T.

51+91⁷⁵ P.O.T. X

N 00° 59' E. ✓

N 07° 51' W

41+68⁵⁰ P.O.T.

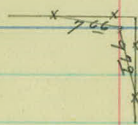
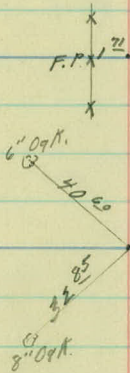
39+49⁰⁵ P.T. 44°-29'
 39 37°-22'
 150 30°-07'

38+38⁴⁰ P.I. Δ-88°-58' L.
 38 D-29°
 150 T-194¹³ ✓
 37 L-306⁷⁸ ✓
 150 R-199²⁰ ✓

36+42²⁷ P.C. 0°-00'

N 89° 37' E.

N 81° 07' E.



Sta. Point It. Rt. Calc. Bearing Mag. Bearing

75 + 90⁴⁰

66 + 56⁴⁰ P.O.T.

5. 89° 34' W. ↓

5. 81° 04' W.

65 + 59⁷⁰ P.T. 45° 36' E

65 39° 34'

+50 34° 34'

64 29° 34'

63 + 97⁷⁰ P.I.

+50 24° 34'

63 19° 34'

+50 14° 34'

62 9° 34'

+50 4° 34'

61 + 04³⁹ P.C. 0° - 00'

A- 91° 05' L.

D- 20°

T- 293⁴¹ ✓

L- 455⁴¹ ✓

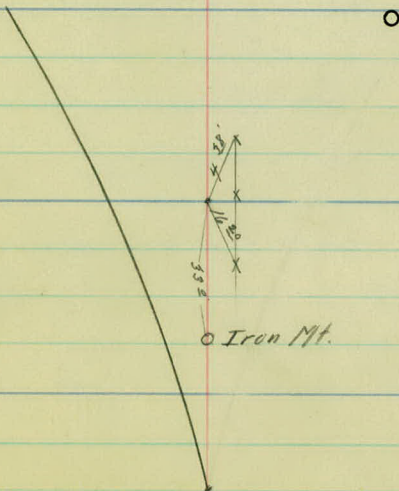
R- 287⁸⁴ ✓

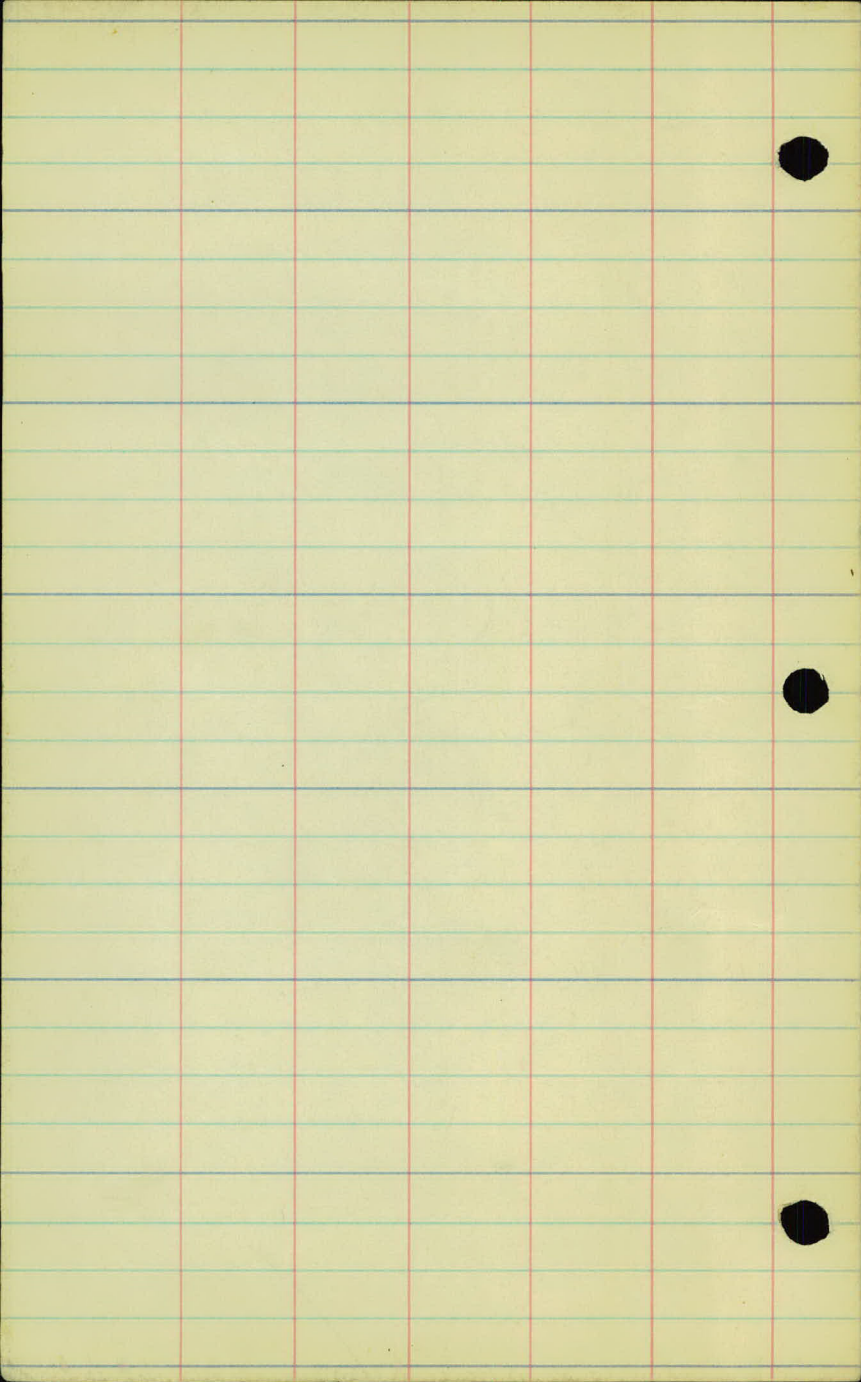
N 00° 39' E.

N 07° 51' W.

T.P.
O 59 55 \square stone Mt.

No ties Available.





East Ave

Rd 90 H 75.

Art. Topog from Sta. 0+00
to Sta. 75+90.

5

4

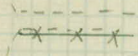
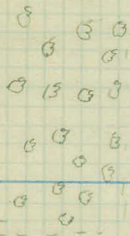
3

2

1

0+00

STA. 5



185 Ent.
180 Cross F. 15

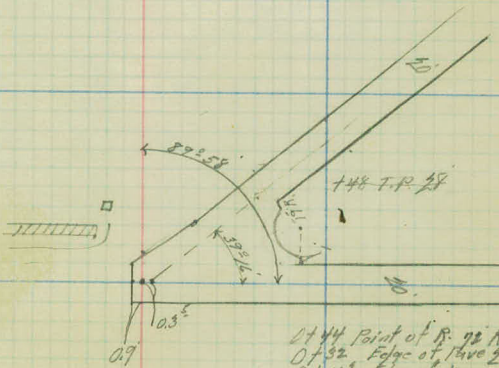
+11 P.P. 25

+48 H/d. 33
+32 & Street
+08 P.P. 24

+99-10"-T-24
+96-12"-T-24
+88-13"-T-27
+77-16"-T-27
+68-10"-T-28
+41-8"-T-22
+26-10"-T-28

+70 P.P. 13
+63 & Alley

+39 Catch Basin 20
+24 Edge S.W. 27
+21 P.P. 22
+21 T.P. 24
+20 H/d. 32
+17 I.H/d. 27



0+44 Point of R. 98 Ft.
0+32 Edge of Lane 28 Ft.
0+16 Edge of Lane 8
0+10 Point of R. 86 Ft.

11

10

9

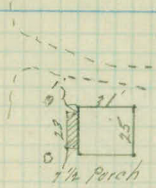
8

7

6

5

+41 P.P. 27



+78 Farm Plot
 +53-6-T-36
 +51 Mail Box 9
 +52-6-T-36

+25 House 51

+11-6-T-36

+90-6-T-36

+05 P.P. 26

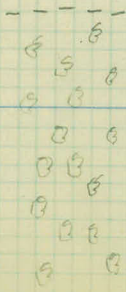
Cultivated

+69 P.P. 24

Hay field

+39 P.P. 23

+11-10-T-18



Cultivated

+02 P.P. 24

+01 Guy Pile 13

17

16

15

14

13

12

11

+24. 14"-7-13

Cultivated.



Brush.
Cultivated.

F. 20

+99 T.P. 20

+36 T.P. 21

F. 21

F. 21

+94 T.P. 21

+29 F. 25

+24 F. Cor. 31

+20 Iron Mt. 30

+20 East Mt. 31

+14 F. Cor. 31

F. 30

+84 Nail Box 11

+65 Cross F.

+57 T.P. 21

F. 30

Orchard.

+55 P.P. 29

+56 F. Cor. 29

+07 T.P. 21

23

22

21

20

19

18

17

F. 9
+80 P.P. 14

F. 18

F. 8
+52 P.P. 14

F. 20

+26 Cross Drain
18" x 20' C.M.
Extends 7 L. & 12 R.
Good Cond.
F. 7

+47 F. Cor. 9
+20 P.P. 12
+22 Hyd. 10

F. 25

+11 E Edge of Pav

+15 Side Drain 27

+78 E of Pav.
+85 E Edge of Pav.

+07 F. Cor. 35

50' & 100' Lt. Pave. 24' Wide.
50' R. Pave. 24' Wide.
100' R. Pave. 20' Wide.

+154 Sil. Drain 32
15" x 62 P²

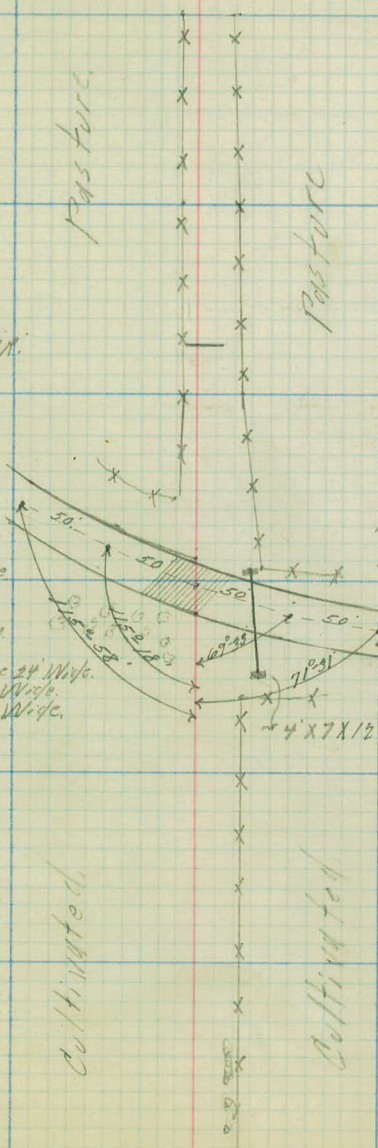
+41 F. Cor. 20
+44 T. P. 40
Head Wall.

Pasture

Pasture

Cultivated

Cultivated



0-10 Feet

29

28

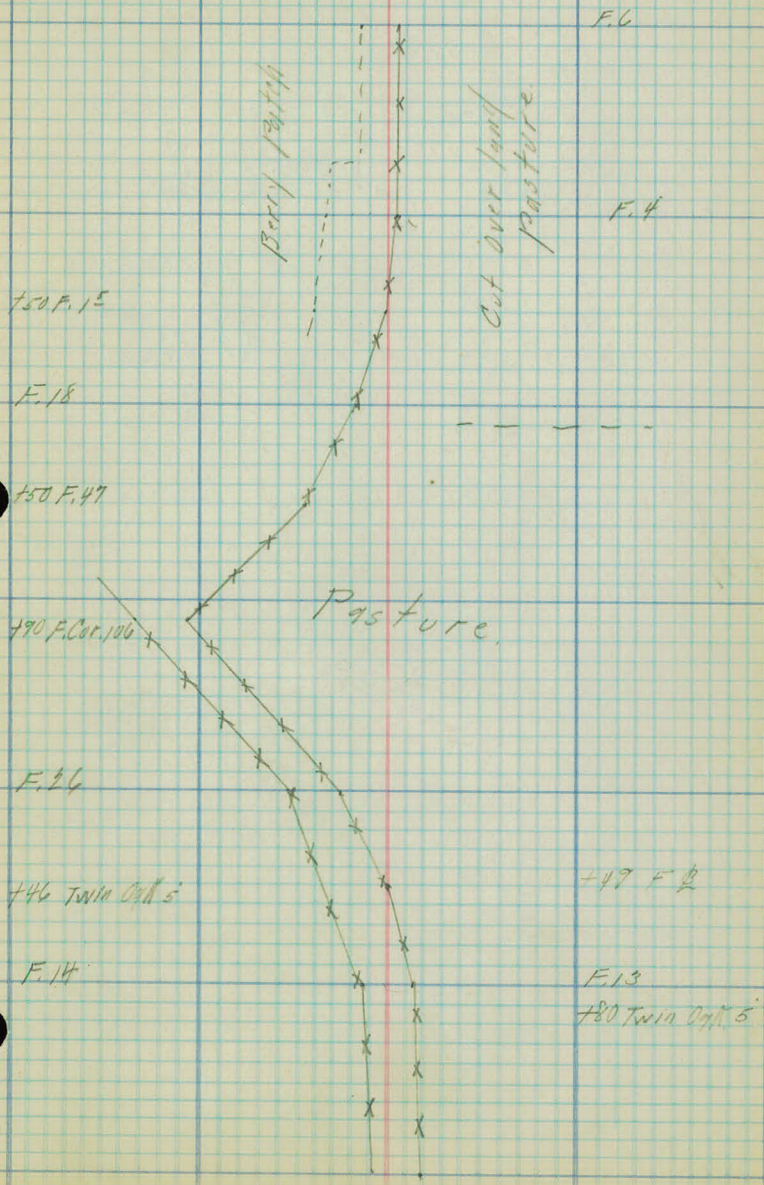
27

26

25

24

23



35

34

33

32

31

30

29

Cultivated

766 Pri. Ent.
723-8"-T-17
708-12"-T-22



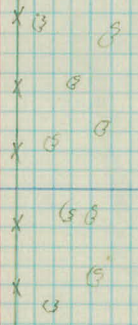
F. 12

F. 13

F. 11

Yard

797-6"-T-8'
791-6"-T-9'
760-8"-T-18



F. 10

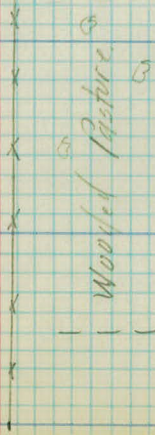
751-6"-T-5 ft.

F. 8

Cultivated

Wooded Pasture

F. 7



41

40

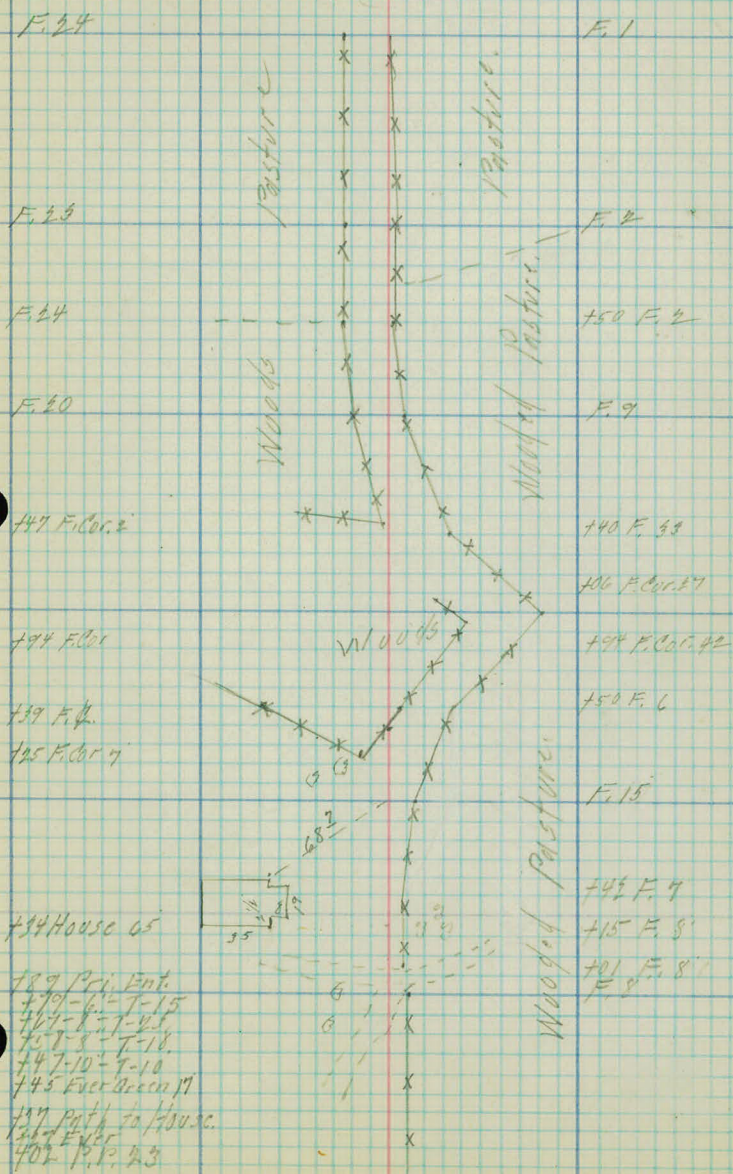
39

38

37

36

35



F. 24

F. 1

F. 25

F. 2

F. 24

+50 F. 2

F. 20

F. 9

+47 F. Cor. 2

+40 F. 33

+06 F. Cor. 27

+94 F. Cor.

+94 F. Cor. 42

+39 F. 4

+50 F. 6

+25 F. Cor. 7

F. 15

+34 House 65

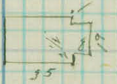
+42 F. 7

+15 F. 8

+01 F. 8

- +89 Pri. Ent.
- +90-6-7-15
- +07-8-7-25
- +07-8-7-18
- +47-10-7-10
- +45 Evergreen M

- +37 Path to House.
- +02 P.P. 23



682

6

6

1

1

1

33

33

33

33

33

33

33

33

Wooded Pasture

Pasture

Pasture

Woods

Woods

47

46

45

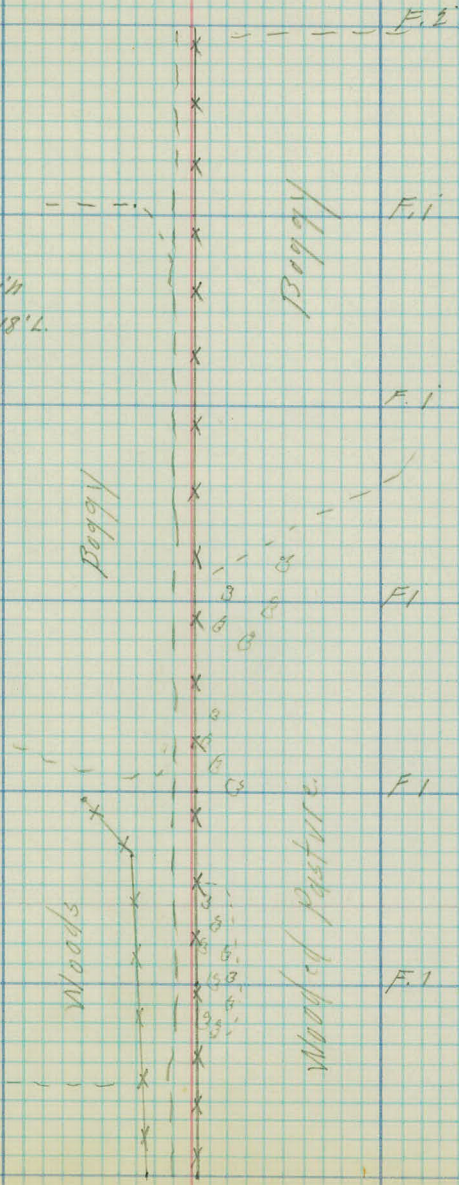
44

43

42

41

458 Cross prain
36" x 20" C.N.
Extends 2' x 18' L.
Fair Camp
prains Lt.



194 Floor #0
167 Floor #2

Woods

Wooded Pasture

F.1

53

52

51

50

49

48

47

F. 3

F. 2

F. 0.5

759 C.F. 31

Cultivated

Cultivated

Uncultivated

Cultivated

759 Cross Fence

F. 1

F. 2

+11 F. 1
+07 Field Ent
+99 F. 2



59

58

57

56

55

54

53

F. 4

Tamarack Swamp

+773 Cross F.

Pasture

Hay Meadow

F1

F. 4

+65 F. Cor. 21

+59 C. F.

F. 5

Uncultivated

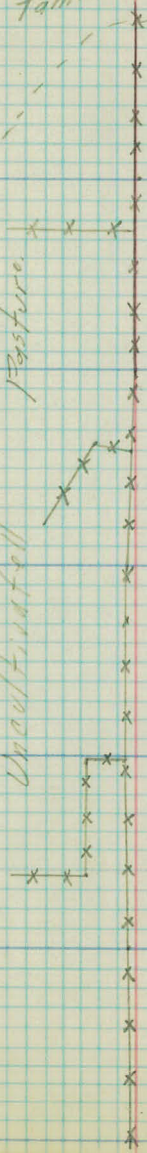
Cultivated

F. 4

+90 F. Cor. 20

+38 F. Cor. 18

F. 4



65

64

63

62

61

60

59

176 Apple Tree 28
174 Apple Tree 24

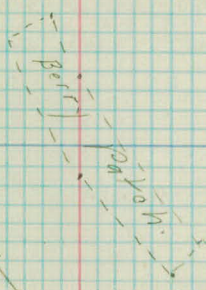
150 F. 57

F. 17
185 Cross F.

150 F. 1

F. 2'

1



Hand Made

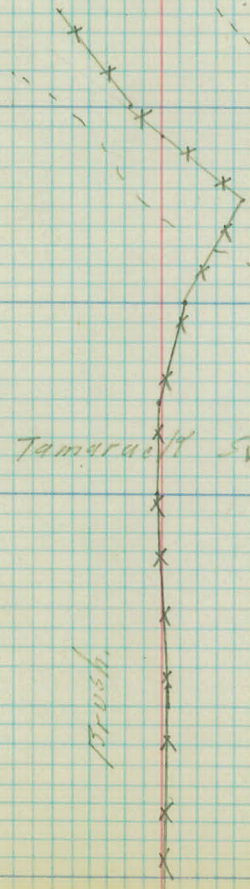
153 F. Cor. 43

F. 12

Tamarack Swamp

Brush

F. 2'



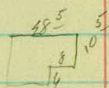
71

40

70

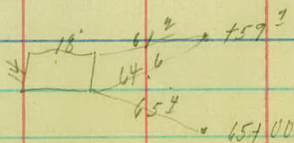
69

68



67

66



65

77

76

75

74

73

72

71

100 Cross Grain
12" X ?
Extens. R. & P
Poor Cond.

swamp

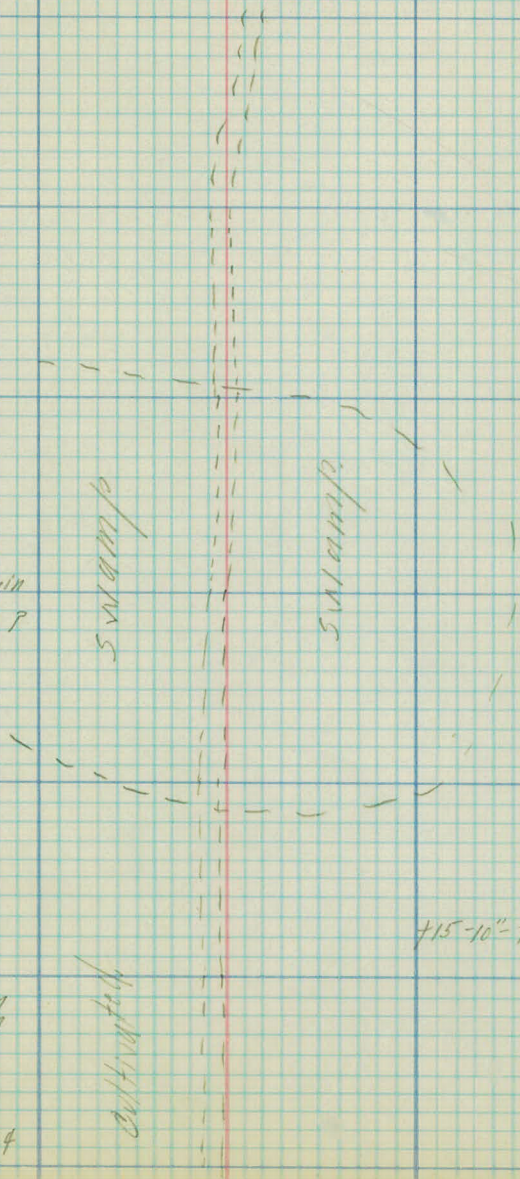
swamp

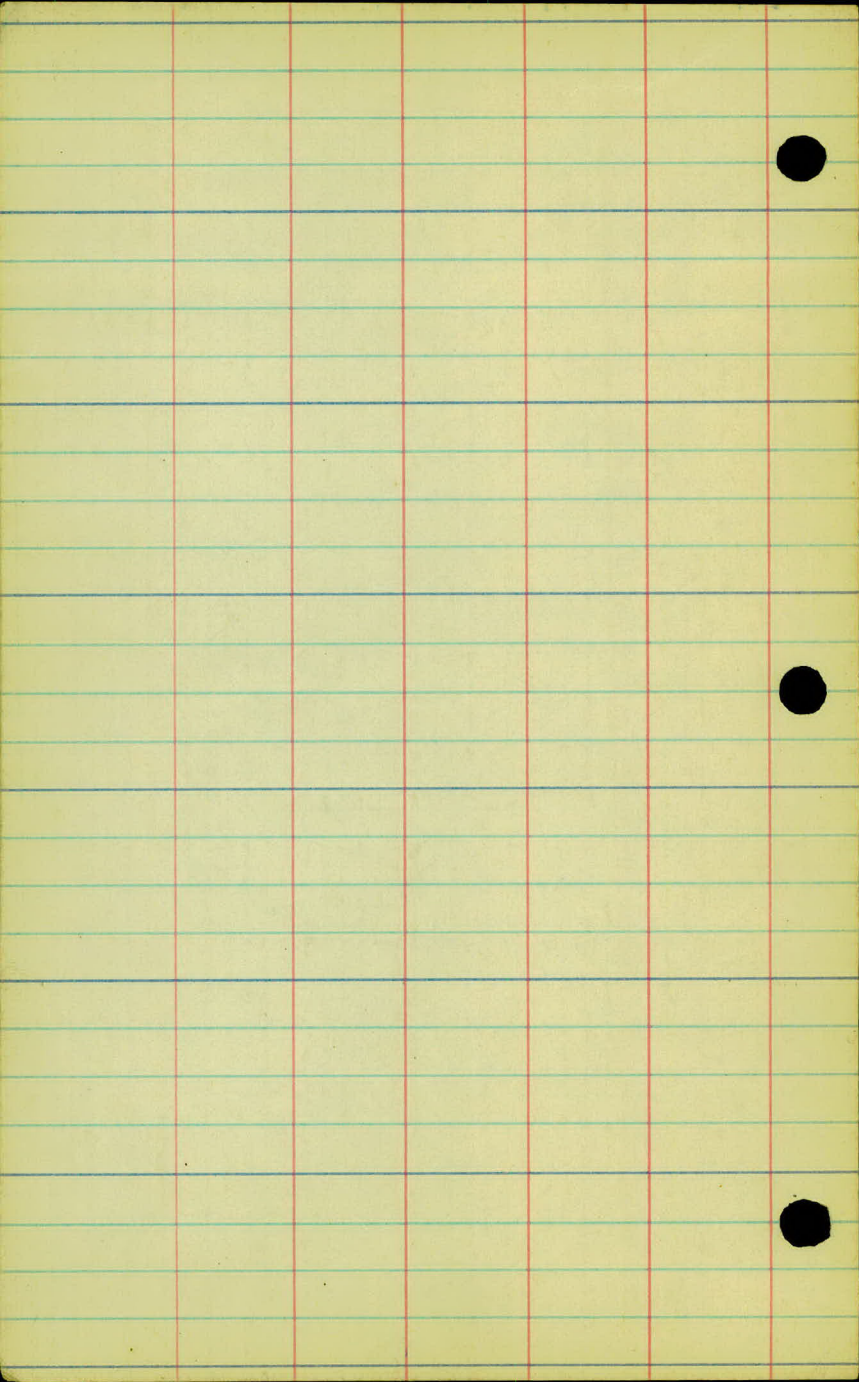
+15-10" T.-11

+79-6" T.-27
+77-6" T.-27

+45 T.P. 28
+13-0" T.-24

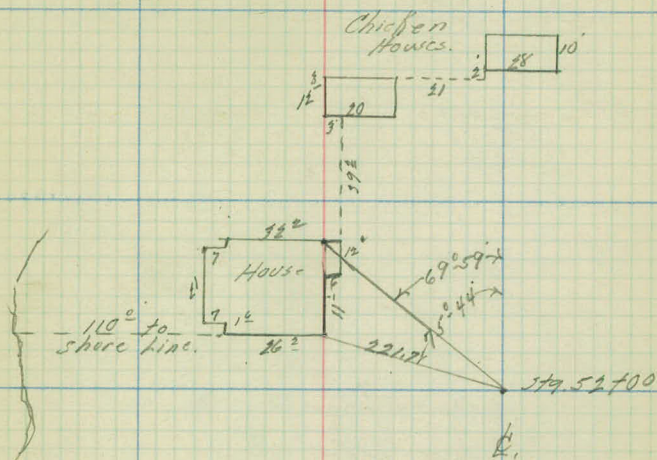
cutting



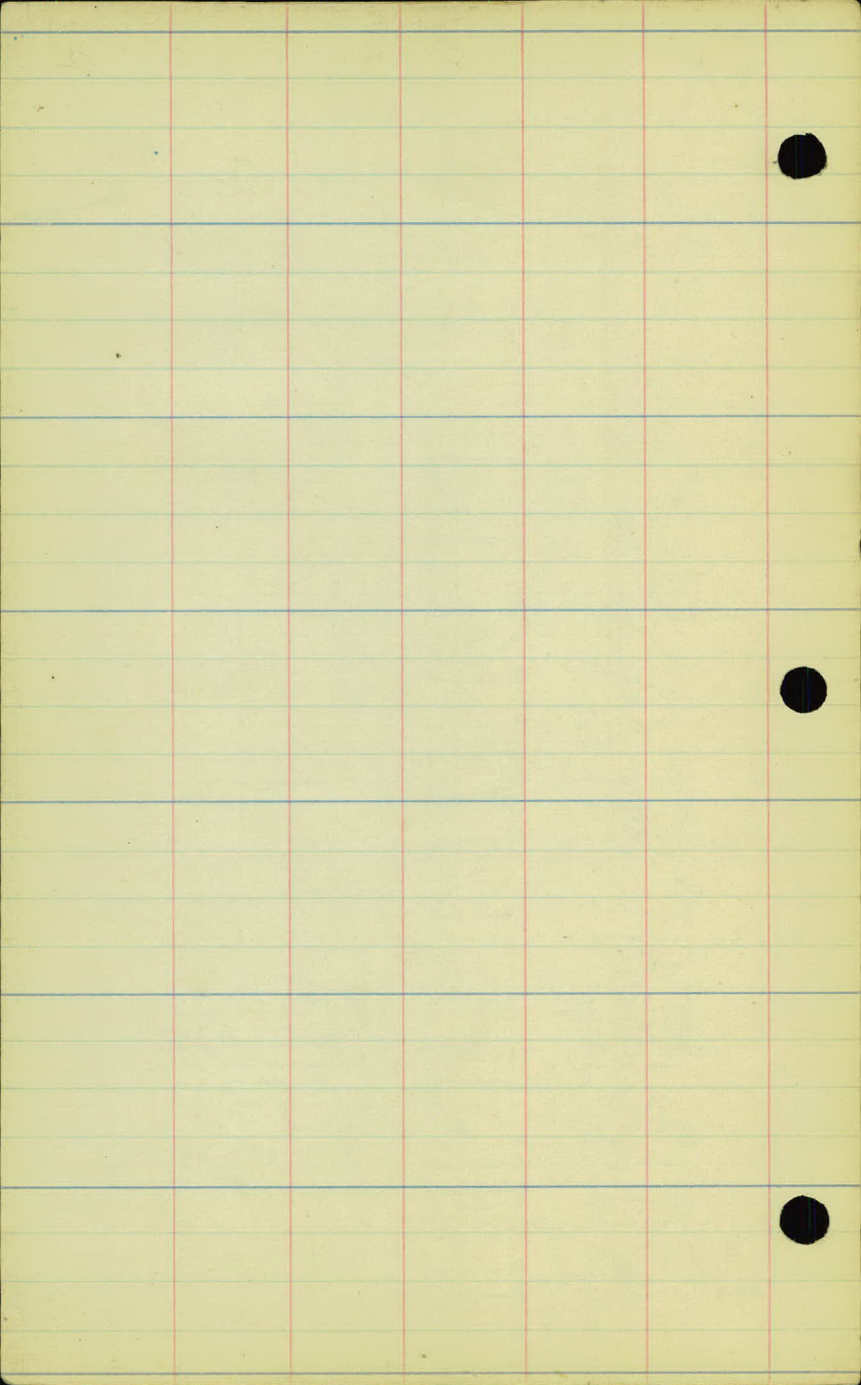


41 + 95 Abandul Spring.

N.



B.M. 949.58 = Elev.
 104 2.42 = +
 957.00 = H.I.
 2.66 = -
 947.34 = Elev. bottom of Well.



East Ave.

Rd # 75.

Center line levels from
Sta. 0+00 to Sta. 75+90.

Sta.	+	H.I.	-	Red	Elev.
P.M.	3.70	999.44 ✓		995.74	
-3+00				8.7	990.7
-2+00				6.5	92.9
-2+50				4.8	94.6
-1+00				4.4	95.0
-1+50				6.0	93.4
-1+90	Edge of Pavement			5.87	93.57
0+00	¢ of Minnehaha St.			5.71	93.73
0+16 ⁶	Edge of Pavement			5.96	93.48
0+50				5.1	94.3
1+00				2.8	996.6
T.P.	8.09	1006.89 ✓	0.64	998.80 ✓	
2+00				6.5	1000.4
3+00				5.6	01.3
+32	¢ Street Lt			5.3	01.6
4+00				3.9	03.0
5+00				2.9	04.0
6+00				3.2	03.7
7+00				3.9	03.0
T.P.	2.73	1006.37 ✓	3.25	1003.64 ✓	
8+00				4.2	02.2
9+00				4.9	01.5
10+00				6.2	1000.2
11+00				7.2	999.2
B.M.				6.92	999.45 ✓
12+00				10.5	95.9
T.P.	0.82	994.69 ✓	12.50	993.89 ✓	

Lt.

Rt.

Top of Hyd. N.W. Cor. East Ave. & Minnehaha St.

140	11.5	9.9	7.9	7.3	4.40	3.22	1.91	0.69
300	200	150	100	50	50	100	150	200

R. Stillwater Rd.	4.76	4.04	3.19	2.84
	50	100	150	200

6.25 = Elev. of Side Walk Lt.

5.75 = Elev. Bottom of Opening in Catch Basin Lt.

Regr. St. 9.0 6.9
 100 50
 3.41 = Elev. Top of Hyd. Lt.

Spk. in P.P. Lt. Sta. 11 + 50

Sta.	+	H.I.	-	Red	Elev.
		994.69			
13+00				3.3	991.4.
14+00				8.2	86.5.
15+00				12.7	82.0.
T.P.	0.46	983.14 ✓	12.01	982.68 ✓	
16+00				5.7	77.4.
17+00				8.7	74.4.
T.P.	0.45	971.40 ✓	12.19	970.95 ✓	
18+00				2.2	69.2.
19+00				6.1	65.3.
+62				7.4	64.0.
+85 ^s		Edge of pavement.		7.05	64.35.
+98 ^z		Q. of Stillwater Rd.		7.11	64.29.
20+00				7.11	64.29.
+11 ^z		Edge of Pavement		7.55	64.05.
+21				7.9	63.5.
21+00				13.3	58.1.
T.P.	5.43	964.93 ✓	11.90	959.50 ✓	
+50				6.4	58.3.
22+00				3.7	61.2.
T.P.	9.46	972.91 ✓	1.48	963.45 ✓	
+50				8.5	64.4.
23+00				7.4	65.5.
+30				6.7	66.2.
24+00				7.8	71.1
T.P.	9.71	982.15 ✓	0.47	972.44 ✓	

11.20 = Intake Elev. of Side Drain Rt.

$$\begin{array}{r} 9.70 \\ \hline 1.20 \end{array} \quad \begin{array}{r} 8.60 \\ \hline 5.0 \end{array}$$

$$\begin{array}{r} 5.30 \\ \hline 5.0 \end{array} \quad \begin{array}{r} 3.30 \\ \hline 1.0 \end{array}$$

13.50 = Outlet Elev. of Side Drain Rt.

$$\text{Outlet} = \underline{10.2}$$

$$\underline{9.55} = \text{Intake}$$

Sta.	+	H.I.	-	Red	Elev.
		982.15			
160				6.5	973.9
15+00				4.4	67.8
13. M.	9.82	984.98 ✓	6.99	975.16 ✓	
24+00				13.7	71.3
+03				12.3	72.7
+50				8.1	76.9
25+00				6.5	78.5
+50				6.8	78.4
26+00				7.1	77.9
+50				7.4	77.6
27+00				6.5	78.5
+75				4.5	80.5
28+00				4.4	78.6
+50				5.2	79.8
29+00				2.5	82.5
T. P.	11.99	996.39 ✓	0.58	984.40 ✓	
30+00				7.8	88.6
+40				4.3	92.1
T. P.	9.02	1004.12 ✓	1.29	995.10 ✓	
31+00				8.0	96.1
+35				6.6	97.5
32+00				5.9	98.2
+45				5.3	98.8
33+00				8.6	95.5
T. P.	4.79	999.42 ✓	11.49	992.63 ✓	
+40				9.0	90.4

Sp. N. in P.P. Lt. Sta. 25+75

Sta.	+	H.I.	-	Rod	Elev.
		999.42			
34+00				10.1	989.3.
+25				9.2	90.2.
+75				48	94.6.
35+00				48	94.6.
+55				77	91.7.
36+00				8.5	90.9.
+42				10.4	89.2.
B.M.	2.40	994.33 ✓	7.49	991.93 ✓	
37+00				8.2	86.1.
+25				10.4	83.9.
+50				7.6	84.7.
38+00				4.4	89.9.
+40				4.3	90.0.
T.P.	1.24	990.52 ✓	5.07	989.26 ✓	
39+00				7.0	83.5.
T.P.	0.52	979.34 ✓	11.68	978.84 ✓	
+50				5.4	73.8.
40+00				11.8	67.6.
+50				15.9	63.5.
41+00				17.5	61.9.
T.P.	1.54	968.37 ✓	12.55	966.81 ✓	
+68				2.8	65.6.
42+00				3.1	65.3.
+50				8.0	60.4.
43+00				12.0	56.4.

spl. in 12" Oak. 40 ft. Sta. 36+10.

Step	+	H. I.	-	Roof	Elev
		968.37			
	+50			11.7	956.7
T.P.	2.17	958.53	12.01	956.96	✓
44+00				4.5	54.0
	+50			7.6	50.9
45+00				9.0	49.5
	+50			9.8	48.7
46+00				9.7	48.8
T.P.	7.42	956.72	9.23	949.30	✓
B.M.			1	4.55	952.17
47+00				7.7	49.0
	+50			7.9	48.8
48+00				4.1	52.0
T.P.	11.01	966.34	1.39	955.33	✓
	+40			10.0	56.3
T.P.	12.12	978.04	0.44	965.90	✓
49+00				8.6	69.4
T.P.	11.09	988.68	0.43	977.59	✓
	+70			7.1	81.6
50+00				5.4	83.5
51+00				2.8	85.9
T.P.	4.97	991.98	1.67	987.01	✓
	+50			4.1	87.9
52+00				2.9	89.1
	+50			4.1	87.9
	+75			6.4	85.6

45738 Cross Prain
Prains Lt.

$\frac{11.4}{50}$

outlet
 $\frac{10.8}{78}$

Intake
 $\frac{10.8}{5}$ $\frac{9.1}{50}$

sp. M. in Tree Lt. Sta. 46 + 06.

Sta.	+	H.I.	-	Rod	Elev
		991.98			
53+00				9.2	982.8.
T.P.	2.78	982.57 ✓	12.19	979.79 ✓	
+50				4.4	78.2.
54+00				6.7	75.9.
+50				7.7	74.9.
55+00				6.4	76.9.
+15				5.6	77.0.
+50				8.7	74.2.
56+00				12.2	70.4.
T.P.	1.81	972.17 ✓	12.21	970.36 ✓	
+35				7.9	64.3.
T.P.	4.32	964.38 ✓	12.11	960.06 ✓	
+75				9.6	54.8.
57+00				12.3	52.1.
+50				13.1	51.3.
B.M.	7.94	959.77 ✓	12.55	951.83 ✓	
58+00				7.1	50.7.
+50				10.1	49.7.
59+00				11.2	48.6.
60+00				10.8	49.0.
61+00				10.7	49.1.
+50				7.4	50.2.
62+00				10.1	49.7.
+50				7.5	50.3.
63+00				8.1	51.7.

Spk. in Fence Post Rt. Sta. 57162.

Sta.	+	H.I.	-	Rod	Elev.
		95977			
+50				6.3	95938.
+85				4.2	55.6.
T.P.	12.94	971.25 ✓	1.46	958.31 ✓	
64+00				12.4	58.9.
+30				5.3	66.0.
+50				14	69.7.
T.P.	11.71	981.44 ✓	1.52	969.95 ✓	
+75				9.0	72.4.
65+00				8.5	72.9.
+30				8.3	73.1.
+60				5.4	76.0.
+82				4.3	77.1.
66+00				13	80.1.
T.P.	9.31	990.34 ✓	0.41	981.05 ✓	
+50				5.3	85.0.
67+00				4.4	85.9.
+50				6.5	83.8.
68+00				7.7	80.6.
+50				12.7	77.6.
T.P.	4.28	982.03 ✓	12.59	977.75 ✓	
69+00				6.0	76.0.
+50				6.8	75.2.
70+00				5.3	76.7.
+50				5.3	76.7.
71+00				6.5	75.5.

72 ~~81~~ = Elev. Floor of Garage on Lt 972.24
38 ~~86.5~~ = Elev. Top of Foundation Lt.

Sta.	+	H.I.	-	Red.	Elim.
		982.03			
	+50			7.9	974.1.
	72 +00			9.7	72.3.
T.P.	5.76	976.16 ✓	11.63	970.40 ✓	
	+50			11.0	65.2.
	73 +00			13.3	62.9.
	+50			14.0	62.2.
	74 +00	Cross Drain.		12.6	63.6.
	+50			12.0	64.2.
	75 +00			11.1	65.1.
	+40			9.5	66.7.
	+90 [±]			4.5	71.7.
B.M.			0.58	975.58 ✓	
	76			3.3	72.9.
	+50			+0.8	77.0.
	77			+3.8	80.0.
	+50			+6.2	82.4.
	78			+2.1	78.3.

outlet un-
to find.

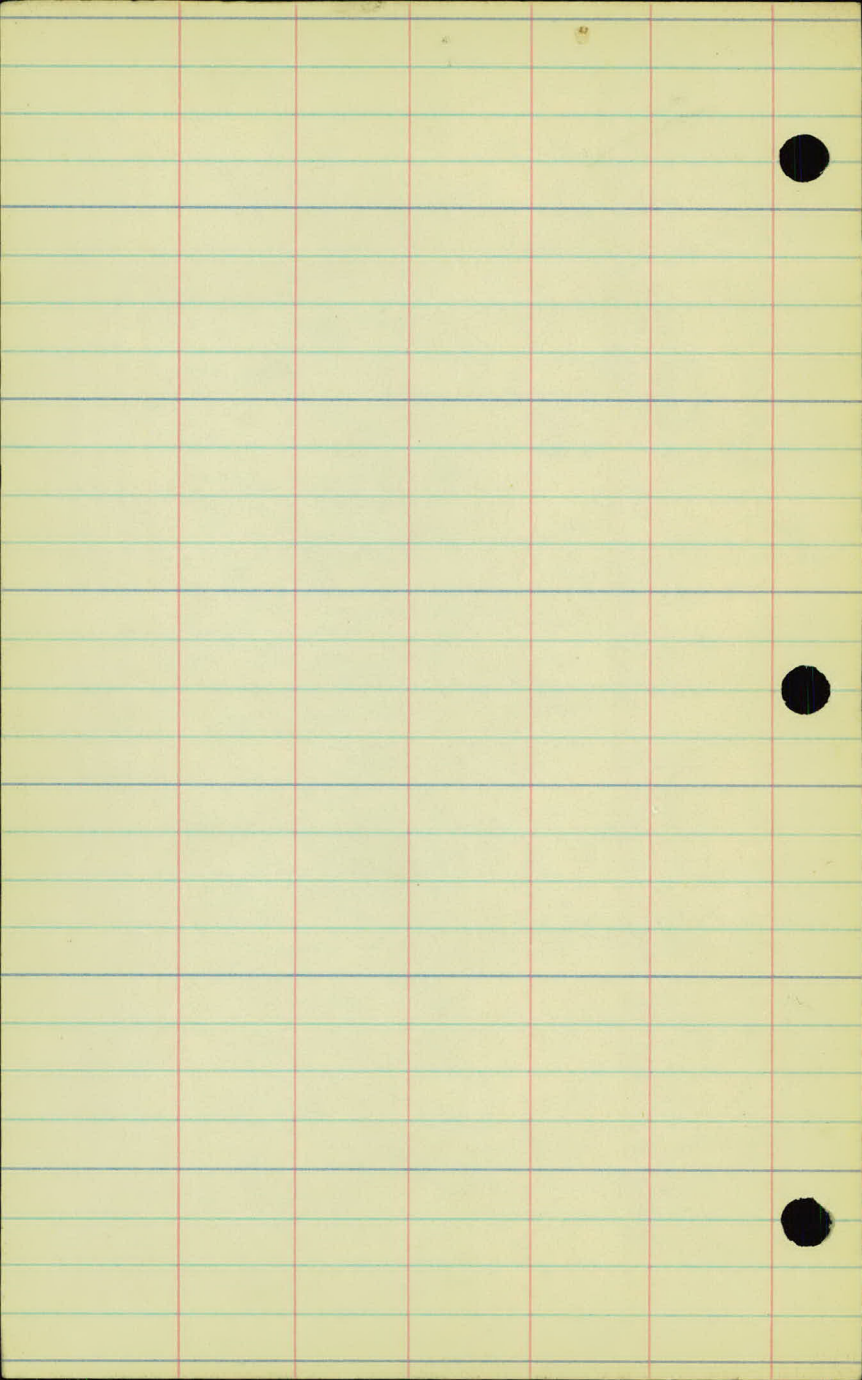
$$\frac{147}{50} = 61.5$$

Intake

$$\frac{132}{5} = 63.0$$

$$\frac{140}{50} = 62.2$$

SpK in T.P. ⁸⁵ Rt. Sta. 75 + 90.



East Ave.

Rd $\frac{1}{2}$ # 75.

X Sections from Sta 0+00
to Sta. 75+90.

Sta.		Elev.
0+00		993.7
+23	+0.1	93.8
1+00		96.6
+50	-1.2	999.2
2+00		1000.4
3+00		01.3
+61	+0.9	02.2
+68	00	02.2
4+00		03.0
+54		04.0
5+00		04.0
+50	"	04.1
6+00		03.7

1-27-27

At.

11.2
50 9.4

RT
8.3
5.0

R. G. Crane
A. M.
E. F.
E. M.

$\frac{7.1}{3.3}$ $\frac{8.8}{3.0}$ $\frac{9.6}{1.5}$ 9.5 $\frac{9.2}{1.2}$ $\frac{9.2}{1.9}$ $\frac{9.1}{2.9}$ 9.1

$\frac{4.2}{3.3}$ $\frac{4.4}{2.5}$ $\frac{4.5}{2.0}$ $\frac{5.9}{1.6}$ $\frac{6.9}{1.1}$ 6.7 $\frac{6.1}{5}$ $\frac{6.0}{1.0}$ $\frac{2.0}{1.5}$ $\frac{2.7}{2.2}$ $\frac{2.6}{3.3}$

$\frac{6.6}{3.3}$ $\frac{7.4}{1.7}$ $\frac{8.1}{1.7}$ 7.5 $\frac{7.1}{4}$ $\frac{7.9}{1.0}$ $\frac{3.0}{1.5}$ $\frac{3.6}{2.2}$ $\frac{3.5}{3.3}$

$\frac{4.9}{3.3}$ $\frac{6.6}{1.7}$ $\frac{6.4}{1.7}$ 6.3 $\frac{6.5}{8}$ $\frac{3.5}{1.6}$ $\frac{3.9}{3.3}$

$\frac{6.2}{3.3}$ $\frac{5.7}{3.3}$ $\frac{5.6}{1.4}$ 5.4 $\frac{5.1}{9}$ $\frac{4.9}{1.6}$ $\frac{4.8}{3.3}$

$\frac{5.9}{3.3}$ $\frac{5.6}{1.4}$ 4.5 $\frac{4.7}{1.1}$ $\frac{4.1}{1.9}$ $\frac{3.2}{3.3}$

$\frac{1.1}{3.3}$ $\frac{1.8}{2.5}$ $\frac{5.3}{2.0}$ $\frac{5.4}{1.6}$ 4.5 $\frac{4.7}{1.1}$ $\frac{4.1}{1.9}$ $\frac{3.2}{3.3}$

$\frac{6.3}{3.3}$ $\frac{6.6}{2.3}$ $\frac{4.2}{1.5}$ $\frac{4.2}{1.2}$ 3.8 $\frac{4.1}{1.1}$ $\frac{4.1}{1.6}$ $\frac{2.9}{1.8}$ $\frac{2.6}{3.3}$

$\frac{3.2}{3.3}$ $\frac{3.2}{2.8}$ $\frac{4.4}{1.5}$ $\frac{5.2}{9}$ 5.2 $\frac{5.3}{5}$ $\frac{4.4}{8}$ $\frac{4.5}{3.3}$

$\frac{2.4}{3.3}$ $\frac{2.7}{2.3}$ $\frac{3.6}{1.4}$ $\frac{5.2}{1.0}$ 5.2 $\frac{5.3}{4.}$ $\frac{4.1}{1.2}$ $\frac{4.3}{3.3}$

$\frac{5.6}{3.3}$ $\frac{6.2}{1.5}$ $\frac{5.6}{1.0}$ 5.5 $\frac{5.2}{1.1}$ $\frac{5.2}{3.3}$

$\frac{7.2}{3.3}$ $\frac{7.0}{1.8}$ $\frac{6.1}{1.1}$ 5.6 $\frac{5.7}{1.0}$ $\frac{5.2}{3.3}$

Sta.

Elev.

662 1057

1003.3 ✓

7 + 00

03.0 ✓

8 + 00

02.2 ✓

9 + 00

01.5 ✓

10 + 00

1000.2 ✓

11 + 00

999.2 ✓

12 + 00

95.9 ✓

13 + 00

91.4 ✓

14 + 00

86.5 ✓

15 + 00

82.0 ✓

16 + 00

77.4 ✓

17 + 00

74.4 ✓

18 + 00

69.2 ✓

Lt. 2 Rt.

$\frac{7.4}{33} \frac{5.7}{17} \frac{6.2}{11} \frac{5.9}{5.9}$ $\frac{5.4}{5} \frac{4.7}{11} \frac{3.5}{18} \frac{2.8}{33}$

$\frac{6.3}{33} \frac{5.4}{13} \frac{6.4}{12} \frac{6.2}{6.2}$ $\frac{6.4}{4} \frac{5.4}{10} \frac{4.7}{14} \frac{4.0}{33}$

$\frac{5.8}{33} \frac{6.0}{16} \frac{7.0}{7} \frac{7.0}{7.0}$ $\frac{7.3}{3} \frac{6.4}{4} \frac{6.5}{11} \frac{6.4}{33}$

$\frac{3.0}{33} \frac{3.5}{20} \frac{3.7}{14} \frac{4.4}{10} \frac{4.1}{4.1}$ $\frac{3.9}{3} \frac{3.2}{4} \frac{2.8}{15} \frac{2.4}{33}$

$\frac{7.3}{33} \frac{6.6}{25} \frac{5.8}{12} \frac{5.5}{7} \frac{5.4}{5.4}$ $\frac{5.2}{8} \frac{4.8}{10} \frac{4.5}{20} \frac{4.5}{33}$

$\frac{7.5}{33} \frac{7.2}{14} \frac{6.7}{6} \frac{6.4}{6.4}$ $\frac{6.2}{6} \frac{5.6}{14} \frac{5.1}{22} \frac{5.0}{33}$

$\frac{9.5}{33} \frac{8.2}{14} \frac{10.3}{10} \frac{9.7}{9.7}$ $\frac{9.9}{8} \frac{7.1}{13} \frac{6.5}{23} \frac{6.5}{33}$

$\frac{4.7}{33} \frac{3.9}{17} \frac{6.0}{11} \frac{5.7}{6} \frac{5.5}{5.5}$ $\frac{5.5}{8} \frac{3.7}{11} \frac{4.1}{20} \frac{2.1}{25} \frac{1.7}{33}$

$\frac{10.2}{33} \frac{9.7}{15} \frac{10.6}{13} \frac{10.5}{7} \frac{10.5}{10.5}$ $\frac{11.0}{9} \frac{9.5}{10} \frac{9.5}{15} \frac{7.5}{19} \frac{7.3}{33}$

$\frac{3.4}{33} \frac{2.6}{14} \frac{5.6}{10} \frac{5.4}{5.4}$ $\frac{5.4}{8} \frac{4.5}{10} \frac{4.5}{14} \frac{2.0}{16} \frac{2.6}{33}$

$\frac{11.2}{33} \frac{11.6}{25} \frac{9.7}{11} \frac{10.2}{9} \frac{9.8}{9.8}$ $\frac{10.2}{10} \frac{12.7}{15} \frac{13.4}{33}$

$\frac{4.8}{33} \frac{3.8}{13} \frac{3.7}{7} \frac{3.4}{3.4}$ $\frac{4.1}{12} \frac{4.5}{14} \frac{3.3}{25} \frac{3.3}{35}$

$\frac{5.1}{33} \frac{5.4}{15} \frac{7.6}{12} \frac{8.1}{9} \frac{8.9}{5} \frac{8.8}{8.8}$ $\frac{8.5}{15} \frac{8.2}{19} \frac{7.7}{22} \frac{5.6}{24} \frac{6.0}{33}$

5+9. Flex.
18+00 69.2
+40 -1.7 967.5 ✓

19+00 65.3 ✓
+50 -10 64.3

+85 64.4 ✓

20+00 64.3 ✓

+12 64.1 ✓

+21 63.5 ✓

+50 +3.6 61.7 ✓

21+00 58.1 ✓

+50 -0.1 58.0 ✓

22+00 61.2 ✓

+50 +3.1 64.3 ✓

23+00 65.5 ✓

Lt. Q. Pt.

6.4 5.5 7.3 9.2 9.8 10.6 10.1 9.9 8.5 9.7
33 19 18 12 7 3 10.5 15 19 24 33

5.3 5.0 4.9 5.3 5.7 6.3 7.4 7.4
33 14 9 12 13 19 29 33

6.8 6.9 6.3 6.4 6.6 8.0 7.3 8.5 10.0
33 16 6 10 13 16 25 33 36

8.2 7.5 6.7 5.0
33 22 16 33

7.1 5.8
33 6.2 33

7.2 6.8 10.8 9.5
33 6.4 21 31 34

7.5 7.0 11.0 10.0
33 7.1 20 30 33

14.1 13.4 12.7 9.9 9.0 12.0 11.5 9.4
33 25 10 3 8.9 18 24 28 33

16.9 16.6 15.8 12.8 12.5 13.5 13.7 13.2
33 19 7 7 12.5 13 18 2.5 33

17.9 16.5 15.0 12.2 12.6 12.4 11.5
33 23 8 12.6 13 19 25 33

14.5 13.0 11.6 9.5 8.8 8.7 9.0 5.1 3.7 3.1
33 21 11 5 9.2 8 11 13 18 25 33

12.2 9.0 5.3 6.3 6.8 4.9 0.9 0.0 70.5
33 19 7 6.1 8 11 15 16 26 33

Above 2 2/3

14.0 12.0 8.9 7.3 6.8 6.1 5.4 4.0 3.2
33 24 13 7 7.0 6 11 12 19 33

Sta.

Elev.

+30

966.2 ✓

~~24+00~~

+60

+4.1

Voic

~~25+00~~

24+00

971.3 ✓

+50

76.9 ✓

25+00

~~78.5~~
67.8 ✓

+50

~~78.2~~
76.2 ✓

26+00

77.9 ✓

+50

77.6 ✓

~~27+00~~

~~78.5~~

+75

80.5 ✓

~~28+00~~

~~78.4~~ ✓

Sta.

Elev.

+50

979.8 ✓

29 +00

82.5 ✓

+50 -3.97

84.7 ✓

30 +00

82.6 ✓

+40

92.1 ✓

31 +00

96.1 ✓

+35

97.5 ✓

32 +00

98.2 ✓

+45

98.8 ✓

33 +00

95.5 ✓

+40

90.4 ✓

34 +00

89.3 ✓

+25

90.2 ✓

1-18-28
A.W.L.

EAST AVE. RD. # 75

RE-CROSS-SECTIONS

FROM STA. 27+00 TO 37+25 INCL.

STA.	+	H.I.	-	ROD.	ELEV.
B.M.	9.51	984.67 ✓	0.74		975.16
27+00					78.6
+50					78.9
28+00					80.5
+25					80.7
29+00					84.2 ✓
T.P.	11.76	995.69 ✓	2.88		983.93 ✓
+50					85.8
30+00					89.3
+50					92.5 ✓
T.P.	10.80	1003.61 ✓	11.22		992.81 ✓
31+00					96.8
+50					96.5
32+00					97.0
+50					97.4

SPIKE IN P.P. LT. STR. 25+75

$\frac{6.1}{35}$	$\frac{5.8}{26}$	$\frac{5.7}{17}$	$\frac{7.2}{14}$	$\frac{7.3}{12}$	$\frac{5.8}{10}$	$\frac{6.1}{1}$	$\frac{6.0}{13}$	$\frac{5.5}{33}$
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$\frac{5.0}{33}$	$\frac{5.9}{24}$	$\frac{6.2}{24}$	$\frac{6.1}{21}$	$\frac{5.2}{18}$	$\frac{5.0}{9}$	$\frac{5.2}{1}$	$\frac{5.8}{1}$	$\frac{6.5}{7}$	$\frac{6.5}{5}$	$\frac{4.8}{5}$	$\frac{5.0}{21}$	$\frac{4.8}{33}$
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$\frac{5.7}{35}$	$\frac{6.1}{30}$	$\frac{6.2}{22}$	$\frac{6.5}{19}$	$\frac{6.0}{17}$	$\frac{4.2}{12}$	$\frac{4.0}{5}$	$\frac{4.2}{1}$	$\frac{4.5}{3}$	$\frac{6.4}{6}$	$\frac{7.0}{12}$	$\frac{6.2}{33}$
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$\frac{6.2}{33}$	$\frac{6.5}{28}$	$\frac{6.8}{17}$	$\frac{4.0}{11}$	$\frac{3.7}{4}$	$\frac{4.0}{1}$	$\frac{4.1}{3}$	$\frac{7.0}{8}$	$\frac{7.2}{18}$	$\frac{6.3}{33}$
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$\frac{2.5}{33}$	$\frac{3.1}{26}$	$\frac{3.8}{16}$	$\frac{0.9}{12}$	$\frac{0.6}{4}$	$\frac{0.5}{1}$	$\frac{0.6}{5}$	$\frac{1.3}{7}$	$\frac{2.2}{14}$	$\frac{1.9}{27}$	$\frac{2.5}{33}$
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$\frac{10.8}{33}$	$\frac{11.1}{27}$	$\frac{11.1}{16}$	$\frac{9.8}{12}$	$\frac{9.7}{4}$	$\frac{9.9}{1}$	$\frac{9.8}{5}$	$\frac{10.1}{8}$	$\frac{10.2}{16}$	$\frac{9.9}{33}$
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$\frac{9.5}{33}$	$\frac{8.5}{18}$	$\frac{8.2}{14}$	$\frac{7.1}{11}$	$\frac{6.7}{4}$	$\frac{6.4}{1}$	$\frac{6.4}{5}$	$\frac{7.5}{8}$	$\frac{8.0}{11}$	$\frac{5.8}{13}$	$\frac{6.0}{26}$	$\frac{6.5}{33}$
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$\frac{4.5}{33}$	$\frac{3.4}{18}$	$\frac{4.1}{15}$	$\frac{4.5}{13}$	$\frac{3.8}{10}$	$\frac{3.4}{5}$	$\frac{3.2}{1}$	$\frac{3.3}{7}$	$\frac{4.0}{9}$	$\frac{3.9}{11}$	$\frac{0.6}{14}$	$\frac{0.2}{29}$	$\frac{0.0}{33}$
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$\frac{10.0}{33}$	$\frac{7.5}{16}$	$\frac{9.7}{14}$	$\frac{9.7}{12}$	$\frac{8.7}{9}$	$\frac{8.6}{1}$	$\frac{8.7}{7}$	$\frac{9.8}{10}$	$\frac{8.8}{13}$	$\frac{6.0}{14}$	$\frac{6.2}{24}$	$\frac{6.1}{33}$
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$\frac{7.3}{33}$	$\frac{7.1}{33}$	$\frac{0.9}{15}$	$\frac{8.0}{11}$	$\frac{8.0}{11}$	$\frac{7.3}{7}$	$\frac{7.3}{5}$	$\frac{7.1}{1}$	$\frac{7.3}{8}$	$\frac{7.6}{10}$	$\frac{7.6}{12}$	$\frac{7.4}{14}$	$\frac{4.8}{22}$	$\frac{4.3}{33}$
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$\frac{5.0}{33}$	$\frac{5.7}{13}$	$\frac{7.1}{10}$	$\frac{6.7}{7}$	$\frac{6.6}{1}$	$\frac{6.8}{7}$	$\frac{7.5}{7}$	$\frac{7.3}{11}$	$\frac{5.6}{13}$	$\frac{5.3}{25}$	$\frac{4.9}{33}$
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$\frac{4.9}{33}$	$\frac{4.5}{13}$	$\frac{6.3}{10}$	$\frac{6.3}{8}$	$\frac{6.1}{6}$	$\frac{6.2}{1}$	$\frac{6.3}{7}$	$\frac{7.0}{12}$	$\frac{7.0}{14}$	$\frac{4.3}{16}$	$\frac{4.6}{24}$	$\frac{5.1}{33}$
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STA.	+	H.I.	-	ROD	ELEV.
		1003.61	✓		
33+00					95.4 ✓
T.P.	6.02	998.41	✓	6.45	992.39
+50					92.8
34+00					91.7
+50					92.6
35+00					92.8
+50					92.0
+82		BEG. COLV.			91.2
36+00					91.1
+18					91.0
+50					89.2
37+00					87.6
+25					85.1 ✓
B.M.					991.96 ✓

LT.

4

RT.

$\frac{6.4}{33}$	$\frac{7.0}{15}$	$\frac{9.1}{12}$	$\frac{8.8}{9}$	$\frac{8.1}{7}$	$\frac{8.2}{8}$	$\frac{8.4}{8}$	$\frac{8.9}{9}$	$\frac{9.6}{11}$	$\frac{8.2}{14}$	$\frac{8.2}{32}$	$\frac{8.2}{35}$
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$\frac{9.3}{33}$	$\frac{7.5}{31}$	$\frac{9.6}{17}$	$\frac{9.2}{10}$	$\frac{5.8}{5}$	$\frac{5.6}{5}$	$\frac{5.5}{11}$	$\frac{9.6}{17}$	$\frac{9.7}{20}$	$\frac{9.4}{33}$
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$\frac{11.2}{33}$	$\frac{10.4}{11}$	$\frac{6.7}{4}$
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$\frac{6.7}{6}$	$\frac{6.6}{10}$	$\frac{9.6}{14}$	$\frac{10.8}{17}$	$\frac{11.0}{24}$	$\frac{10.2}{33}$
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$\frac{7.0}{33}$	$\frac{5.8}{12}$	$\frac{7.2}{11}$	$\frac{6.8}{8}$	$\frac{5.9}{7}$	$\frac{5.8}{5}$	$\frac{6.0}{9}$	$\frac{6.4}{10}$	$\frac{7.0}{18}$	$\frac{9.5}{16}$	$\frac{4.2}{24}$	$\frac{4.2}{33}$
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$\frac{5.7}{33}$	$\frac{4.9}{39}$	$\frac{4.2}{14}$	$\frac{6.6}{12}$	$\frac{6.6}{10}$	$\frac{5.7}{8}$	$\frac{5.6}{5}$	$\frac{5.6}{9}$	$\frac{6.4}{12}$	$\frac{6.4}{14}$	$\frac{3.0}{16}$	$\frac{3.4}{29}$	$\frac{1.7}{33}$
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$\frac{8.0}{33}$	$\frac{7.0}{13}$	$\frac{8.0}{12}$	$\frac{7.8}{10}$	$\frac{6.5}{7}$	$\frac{6.4}{6}$	$\frac{6.2}{9}$	$\frac{7.7}{11}$	$\frac{7.4}{13}$	$\frac{5.8}{15}$	$\frac{4.9}{33}$
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$\frac{8.0}{33}$	$\frac{7.5}{12}$	$\frac{8.4}{11}$	$\frac{8.4}{9}$	$\frac{7.4}{7}$	$\frac{7.3}{7}$
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$\frac{7.6}{37}$	$\frac{7.5}{13}$	$\frac{7.4}{7}$	$\frac{7.3}{7}$	$\frac{7.3}{7}$	$\frac{7.6}{9}$	$\frac{8.4}{12}$	$\frac{8.3}{14}$	$\frac{7.4}{17}$	$\frac{7.3}{33}$
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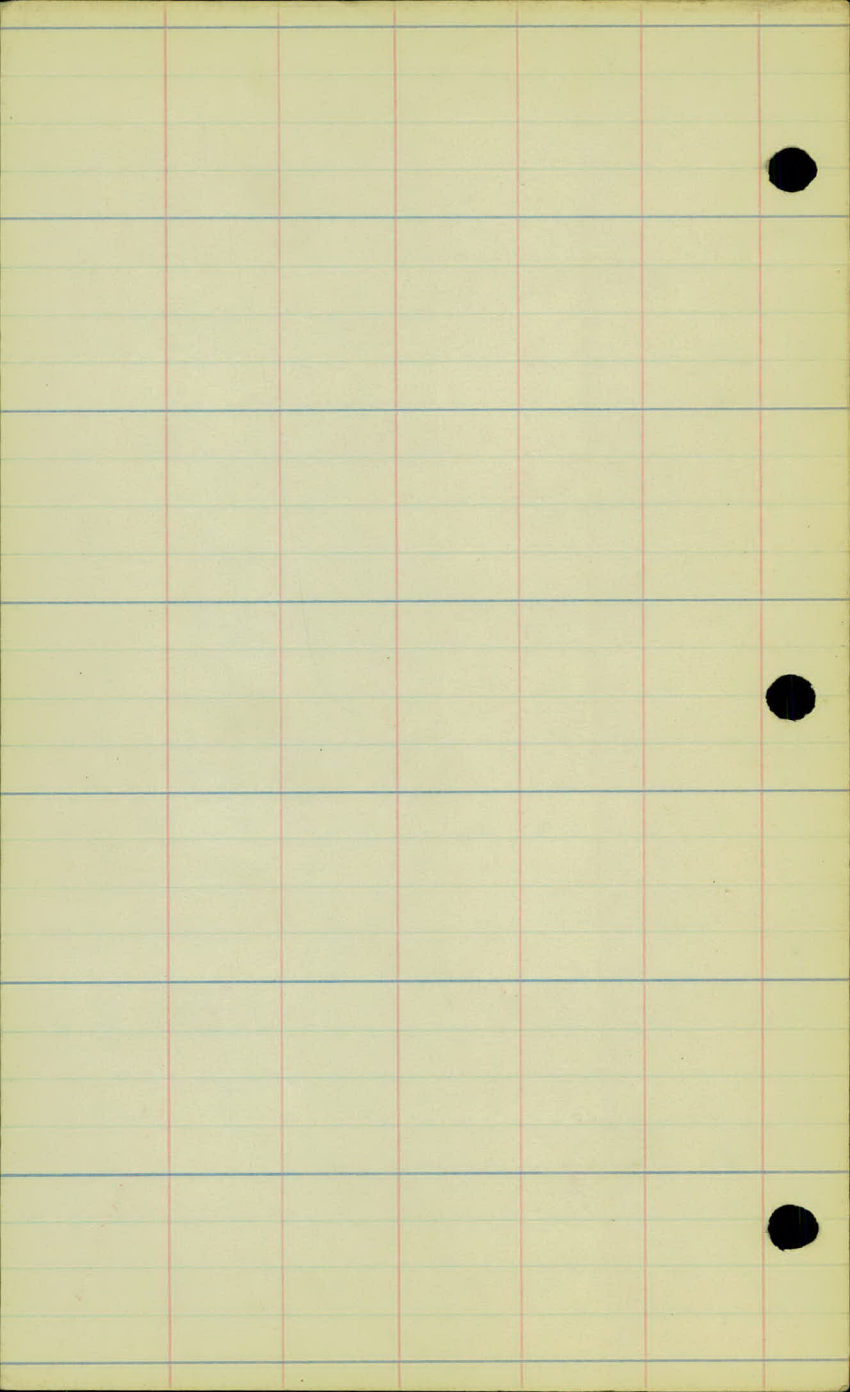
$\frac{8.6}{33}$	$\frac{7.6}{13}$	$\frac{8.8}{12}$	$\frac{8.2}{10}$	$\frac{7.4}{8}$	$\frac{7.4}{7}$
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$\frac{10.8}{33}$	$\frac{9.5}{12}$	$\frac{10.3}{11}$	$\frac{10.0}{8}$	$\frac{9.4}{7}$	$\frac{9.2}{7}$	$\frac{9.4}{8}$	$\frac{10.6}{12}$	$\frac{10.5}{13}$	$\frac{10.0}{14}$	$\frac{9.4}{33}$
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$\frac{14.2}{33}$	$\frac{14.1}{18}$	$\frac{13.6}{4}$	$\frac{10.8}{4}$	$\frac{10.1}{8}$	$\frac{10.1}{14}$	$\frac{12.4}{20}$	$\frac{12.3}{23}$	$\frac{11.6}{27}$	$\frac{10.1}{36}$
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$\frac{14.7}{33}$	$\frac{14.5}{4}$	$\frac{13.3}{4}$	$\frac{12.2}{4}$	$\frac{10.0}{7}$	$\frac{9.0}{17}$	$\frac{9.0}{23}$	$\frac{10.3}{26}$	$\frac{10.3}{38}$	$\frac{8.7}{33}$
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(99.93) SPIKE IN 12" STUMP 40' RT. 36+10



Lt. ♀ Rt.

$\frac{6.1}{33}$ $\frac{6.2}{18}$ $\frac{6.1}{16}$ $\frac{5.4}{12}$ 5.1 $\frac{6.2}{4}$ $\frac{6.0}{15}$ $\frac{5.6}{28}$ $\frac{5.5}{33}$

$\frac{2.6}{33}$ $\frac{2.4}{10}$ $\frac{3.0}{13}$ $\frac{2.6}{11}$ 2.4 $\frac{2.5}{16}$ $\frac{2.6}{33}$

$\frac{13.6}{33}$ $\frac{13.8}{30}$ $\frac{13.1}{10}$ $\frac{13.0}{6}$ 13.1 $\frac{12.5}{6}$ $\frac{12.6}{19}$ $\frac{12.1}{33}$

$\frac{12.1}{33}$ $\frac{10.8}{19}$ $\frac{9.5}{8}$ 7.2 $\frac{8.0}{13}$ $\frac{8.4}{26}$ $\frac{8.7}{33}$

$\frac{7.2}{33}$ $\frac{6.2}{19}$ $\frac{5.9}{8}$ 5.8 $\frac{6.2}{4}$ $\frac{5.7}{8}$ $\frac{3.6}{33}$

$\frac{10.2}{33}$ $\frac{9.6}{26}$ $\frac{7.2}{13}$ $\frac{7.9}{7}$ $\frac{7.8}{5}$ 8.2 $\frac{7.8}{5}$ $\frac{6.0}{8}$ $\frac{6.6}{24}$ $\frac{6.7}{33}$

$\frac{9.2}{33}$ $\frac{9.1}{28}$ $\frac{7.6}{17}$ $\frac{6.5}{4}$ 6.2 $\frac{6.5}{5}$ $\frac{5.4}{7}$ $\frac{4.1}{8}$ $\frac{4.1}{33}$

$\frac{5.6}{33}$ $\frac{5.6}{19}$ $\frac{5.8}{9}$ 5.5 $\frac{6.3}{6}$ $\frac{5.9}{12}$ $\frac{5.5}{33}$

$\frac{5.5}{33}$ $\frac{4.7}{17}$ $\frac{5.1}{7}$ 5.0 $\frac{5.4}{8}$ $\frac{4.5}{11}$ $\frac{5.1}{22}$ $\frac{5.6}{33}$

$\frac{6.3}{33}$ $\frac{6.9}{14}$ $\frac{8.7}{8}$ $\frac{8.3}{2}$ 8.2 $\frac{8.4}{6}$ $\frac{8.7}{8}$ $\frac{7.6}{10}$ $\frac{8.4}{20}$ $\frac{8.3}{33}$

$\frac{13.1}{33}$ $\frac{14.2}{23}$ $\frac{14.0}{10}$ $\frac{13.5}{4}$ 13.3 $\frac{14.0}{8}$ $\frac{15.3}{21}$ $\frac{13.8}{33}$

$\frac{11.9}{33}$ $\frac{11.8}{18}$ $\frac{11.1}{8}$ 9.7 $\frac{11.5}{10}$ $\frac{12.1}{18}$ $\frac{11.5}{33}$

$\frac{10.6}{33}$ $\frac{11.5}{18}$ $\frac{9.8}{6}$ 8.9 $\frac{8.9}{6}$ $\frac{9.6}{9}$ $\frac{9.6}{19}$ $\frac{9.0}{33}$

Sta.

Elev.

+75

994.6 ✓

35+00

94.6 ✓

+55

91.7 ✓

36+00

90.9 ✓

+42

89.2 ✓

37+00

86.1 ✓

+25

83.9 ✓

+50

84.7 ✓

38+00

89.9 ✓

+50 tail

90.0 ✓

39+00

83.5 ✓

+50

73.8 ✓

40+00

67.6 ✓

Lt. ♀ Rt.

~~6.2 4.8 4.1 4.7 4.2 4.6 2.9 2.4 2.2~~
~~33 21 11 4 4.3 6 9 12 25 33~~

~~6.2 5.2 4.8 4.6 4.5 4.5 3.6 3.4 2.3~~
~~33 23 12 7 4.5 7 9 12 25 33~~

~~8.7 8.2 7.5 7.1 6.6 6.5 5.9~~
~~33 18 7 7.3 4 7 22 33~~ x

~~4.3 3.8 3.8 4.0 4.0~~
~~33 11 3.9 6 20 33~~

~~6.9 6.4 5.6 5.6 5.4 5.3~~
~~33 25 7 5.6 4 21 33~~

~~10.3 10.2 10.8 8.3 9.1 8.8 7.5 6.9~~
~~33 23 8 8.7 2 10 15 30 33~~

~~11.2 11.1 8.5 6.6 7.0 5.7~~
~~33 6 10.8 10 16 23 33~~

~~12.3 12.3 11.5 8.7 7.7 4.7 3.3 2.8~~
~~33 24 14 10.1 9 16 23 29 33~~

→ ♀ Elev

~~14.2 10.2 2.0 +5.5 +8.0 +9.0~~
~~33 19 5.0 10 21 30 33~~

→ ♀ Elev

~~14.4 8.9 1.6 +2.5 +3.5 +8.3 +8.5~~
~~33 14 4.9 12 17 28 33 33~~

~~12.3 16.0 12.3 11.1 9.8 6.4 4.9~~
~~33 18 8 11.3 12 17 22 33~~ x

→ Hpoov ♀ Elev

~~4.4 3.5 1.0 0.2 0.9 +0.8 +3.6 +5.2~~
~~33 19 12 5 0.4 1 5 22 33~~

~~7.3 8.8 8.4 6.5 6.3 7.1 6.3~~
~~33 24 20 17 4 6.8 12 33~~

Sta.	Elev.
+50	963.5 ✓
41 +00	61.9 ✓
+68	65.6 ✓
42 +00	65.3 ✓
+50	60.4 ✓
43 +00	56.4 ✓
+50	56.7 ✓
44 +00	54.0 ✓
+50	50.9 ✓
45 +00	49.5 ✓
+50	48.7 ✓
46 +00	48.8 ✓
+50 -0.2	48.6 ✓

$\frac{12.2}{33}$ $\frac{11.9}{23}$ $\frac{11.4}{17}$ $\frac{9.9}{13}$ ~~7.9~~ ~~10.9~~ $\frac{10.8}{33}$

$\frac{10.4}{33}$ $\frac{11.1}{23}$ $\frac{11.5}{17}$ $\frac{10.9}{13}$ $\frac{10.9}{6}$ $\frac{12.0}{9}$ $\frac{12.1}{12.1}$ $\frac{13.7}{33}$

$\frac{2.6}{33}$ $\frac{5.1}{22}$ $\frac{9.0}{17}$ $\frac{8.9}{12}$ 8.9 $\frac{12.8}{33}$

$\frac{2.8}{33}$ $\frac{5.5}{19}$ $\frac{9.7}{14}$ $\frac{10.1}{3}$ 9.0 $\frac{11.4}{23}$ $\frac{13.2}{33}$ X

$\frac{2.7}{33}$ $\frac{3.2}{20}$ $\frac{3.3}{5}$ $\frac{4.3}{3}$ 4.4 $\frac{4.7}{20}$ $\frac{4.0}{33}$

$\frac{9.2}{33}$ $\frac{8.6}{23}$ $\frac{8.5}{18}$ $\frac{7.0}{13}$ $\frac{7.0}{7}$ $\frac{8.1}{3}$ 7.8 $\frac{5.1}{24}$ $\frac{3.9}{33}$

$\frac{10.8}{33}$ $\frac{10.3}{26}$ $\frac{7.8}{20}$ $\frac{8.7}{15}$ $\frac{8.5}{8}$ $\frac{9.7}{6}$ $\frac{9.7}{4}$ 7.5 $\frac{5.5}{23}$ $\frac{3.6}{33}$

$\frac{12.2}{33}$ $\frac{11.2}{24}$ $\frac{11.8}{23}$ $\frac{11.1}{21}$ $\frac{10.3}{15}$ $\frac{10.3}{8}$ $\frac{12.4}{3}$ 10.3 $\frac{8.4}{22}$ $\frac{7.1}{33}$

$\frac{6.8}{33}$ $\frac{6.0}{23}$ $\frac{6.8}{21}$ $\frac{6.8}{19}$ $\frac{5.3}{14}$ $\frac{4.8}{7}$ $\frac{6.3}{3}$ 5.5 $\frac{4.6}{19}$ $\frac{4.0}{33}$

$\frac{7.1}{33}$ $\frac{7.3}{22}$ $\frac{7.7}{18}$ $\frac{6.2}{13}$ $\frac{6.0}{7}$ $\frac{7.2}{2}$ 6.8 $\frac{6.9}{21}$ $\frac{6.8}{33}$

$\frac{7.3}{33}$ $\frac{7.3}{25}$ $\frac{8.0}{20}$ $\frac{5.8}{15}$ $\frac{6.3}{5}$ $\frac{8.0}{2}$ 7.4 $\frac{7.3}{1}$ $\frac{6.8}{12}$ $\frac{6.5}{33}$

$\frac{6.2}{33}$ $\frac{7.0}{25}$ $\frac{7.1}{19}$ $\frac{5.0}{12}$ $\frac{5.2}{6}$ $\frac{7.5}{2}$ 7.5 $\frac{6.8}{2}$ $\frac{6.6}{33}$

$\frac{6.0}{33}$ $\frac{6.3}{24}$ $\frac{6.6}{19}$ $\frac{5.4}{14}$ $\frac{5.1}{6}$ 7.7 $\frac{8.0}{2}$ $\frac{8.0}{33}$

Sta.

Elev.

47+00

949.0 ✓

+50

48.8 ✓

48+00

52.6 ✓

+40

56.3 ✓

49+00

69.4 ✓

+70

81.6 ✓

50+00

83.5 ✓

+50

+11

84.6 ✓

51+00

85.9 ✓

+50

87.9 ✓

52+00

89.1 ✓

+50

89.9 ✓

53+00

82.8 ✓

It. ♀ Pt.

5.3 6.4 6.5 4.9 4.7 7.7 8.0
33 22 19 12 5 7.3 33

5.3 6.4 6.2 4.7 4.6 7.8
33 22 17 12 5 7.4 33

3.9 3.0 2.9 ~~3.9~~ 2.9 3.8 4.0 5.1
33 27 18 ~~18~~ 6 2 3.8 7 33 X

10.1 11.0 10.7 10.2 10.1 11.1 11.9
33 26 22 16 8 3 11.1 33

9.1 9.3 12.0 11.2 11.1 12.0 9.4 10.2
33 28 23 19 8 3 9.1 26 33 X

5.8 5.2 7.5 8.8 9.0 9.0 7.8 3.9 8.0 12.4
33 29 25 21 17 10 6 1 5.9 12 33

2.4 2.4 6.2 5.8 6.6 4.1 5.9 11.0
33 31 22 9 7 2 4.1 10 33

1.6 2.7 2.3 3.3 5.0 9.1
33 25 14 4 3.0 14 33

0.0 0.4 0.9 3.2 5.4 7.8
33 19 4 1.7 11 24 33

4.1 3.8 4.1 4.4 6.2 7.4 9.2
33 19 12 7 5.0 13 24 33

3.8 3.4 3.4 3.6 4.8 5.5
33 27 18 4 3.9 18 33


7.3 5.8 5.3 4.8 4.8
33 14 4 5.1 16 33

12.0 11.3 11.0 10.6 8.5 7.1
33 25 15 6 10.2 17 33

Sta. Elev.

+50 978.2 ✓

54+00 75.9 ✓

+50 74.9 ✓


55+00 76.2 ✓

+15 77.0 ✓

+30 74.2 ✓

56+00 70.4 ✓

+35 64.3 ✓

+75 54.8 ✓

57+00 52.1 ✓

+50 51.3 ✓

58+00 50.7 ✓

59+00 48.4 ✓

Lt. ♀ Rt.

$\frac{38}{33}$ $\frac{37}{24}$ $\frac{37}{18}$ $\frac{35}{9}$ 3.0 $\frac{2.2}{9}$ $\frac{1.1}{20}$ $\frac{0.0}{33}$

$\frac{5.3}{33}$ $\frac{6.7}{17}$ $\frac{5.9}{9}$ 5.4 $\frac{3.1}{20}$ $\frac{0.9}{33}$

$\frac{7.6}{33}$ $\frac{9.0}{26}$ $\frac{7.9}{18}$ $\frac{7.4}{11}$ 6.4 $\frac{0.8}{33}$

$\frac{8.8}{33}$ $\frac{7.4}{22}$ $\frac{6.3}{12}$ 5.0 $\frac{0.4}{33}$

$\frac{8.1}{33}$ $\frac{6.6}{16}$ 4.2 $\frac{0.0}{33}$

$\frac{12.4}{33}$ $\frac{8.6}{23}$ 7.2 $\frac{3.8}{18}$ $\frac{1.3}{33}$

$\frac{20.5}{41}$ $\frac{17.2}{33}$ $\frac{12.6}{27}$ $\frac{9.7}{20}$ $\frac{6.2}{14}$ $\frac{6.4}{7}$ $\frac{3.2}{4}$ 3.0 $\frac{1.4}{16}$ $\frac{+4.9}{33}$

↑ Above Q. Elev.

$\frac{22.0}{36}$ $\frac{20.3}{27}$ $\frac{12.9}{12}$ $\frac{12.2}{4}$ 8.7 $\frac{5.4}{10}$ $\frac{4.0}{30}$ $\frac{3.6}{33}$

$\frac{9.8}{33}$ $\frac{8.2}{20}$ $\frac{7.1}{9}$ 5.4 $\frac{2.5}{14}$ $\frac{+10.0}{36}$ $\frac{+11.0}{45}$

↑ Above Q. Elev.

$\frac{10.1}{33}$ $\frac{9.6}{25}$ $\frac{8.6}{13}$ 7.7 $\frac{3.7}{27}$ $\frac{+10.1}{45}$ $\frac{+10.6}{50}$

↑ Above Q. Elev.

$\frac{9.8}{33}$ $\frac{9.1}{15}$ 8.4 $\frac{7.4}{33}$

$\frac{10.3}{33}$ 9.2 $\frac{8.9}{18}$ $\frac{8.3}{33}$

$\frac{10.7}{33}$ 10.8 $\frac{10.7}{33}$

59.

Flev.

60 + 00

749.0 ✓

61 + 00

49.1 ✓

+50

50.2 ✓

62 + 00

49.7 ✓

+50

50.3 ✓

63 + 00

51.7 ✓

+50

53.3 ✓

+85

55.6 ✓

64 + 00

58.9 ✓

+50

69.7 ✓

65 + 00

72.9 ✓

+30

73.1 ✓

+90

+5.1

78.3 ✓

Lt. ♀ Rt.

$\frac{10.7}{33}$ $\frac{10.7}{15}$ 10.9 $\frac{10.6}{33}$

$\frac{10.8}{33}$ $\frac{10.8}{12}$ 10.6 $\frac{10.5}{15}$ $\frac{10.5}{33}$

$\frac{13.9}{33}$ $\frac{13.8}{18}$ 12.9 $\frac{12.7}{16}$ $\frac{11.7}{33}$

$\frac{13.5}{33}$ $\frac{13.6}{12}$ 13.6 $\frac{12.5}{30}$

$\frac{13.5}{33}$ $\frac{13.3}{22}$ 12.9 $\frac{12.2}{33}$

$\frac{13.5}{33}$ $\frac{13.8}{19}$ 11.5 $\frac{9.7}{26}$ $\frac{10.1}{33}$

$\frac{13.1}{33}$ $\frac{11.0}{17}$ 9.6 $\frac{7.2}{24}$ $\frac{6.3}{33}$

$\frac{7.8}{33}$ $\frac{7.0}{21}$ 7.4 $\frac{4.4}{21}$ $\frac{2.3}{33}$

$\frac{8.3}{33}$ $\frac{6.3}{14}$ 4.4 $\frac{2.7}{19}$ $\frac{0.0}{33}$

$\frac{15.2}{33}$ $\frac{15.1}{23}$ $\frac{9.0}{13}$ 10.5 $\frac{9.2}{22}$ $\frac{9.4}{33}$

$\frac{12.3}{33}$ $\frac{10.7}{27}$ $\frac{9.2}{13}$ 7.3 $\frac{4.8}{14}$ $\frac{3.0}{33}$

$\frac{9.3}{33}$ $\frac{7.8}{13}$ 7.1 $\frac{5.8}{6}$ $\frac{4.5}{10}$ $\frac{3.6}{33}$

$\frac{4.3}{33}$ $\frac{3.5}{21}$ $\frac{2.5}{9}$ 1.09 $\frac{0.0}{10}$ $\frac{+5.2}{2.0}$ $\frac{+3.2}{33}$
↑ Above ♀. E lev

Sta.

Elev.

66+00

980.1 ✓

+25 +2.8

82.9 ✓

+66 +26

85.5 ✓

67+00

85.9 ✓

+50

83.8 ✓

68+00

80.6 ✓

+50

77.6 ✓

69+00

76.0 ✓

+50

75.2 ✓

70+00

76.7 ✓

+60 -0.6

76.1 ✓

71+00

75.5 ✓

+57 -1.8

73.7 ✓

Sta.

Elev.

72 +00

972.3 ✓

+50

65.2 ✓

73 +00

62.9 ✓

74 +00

63.4 ✓

75 +00

65.1 ✓

+40

46.7 ✓

190⁴

71.7 ✓

Lt. ♀ Mt.

$\frac{2.4}{33}$ $\frac{3.8}{24}$ $\frac{12.7}{15}$ $\frac{12.1}{4}$ 12.1 $\frac{11.9}{5}$ $\frac{15.1}{19}$ $\frac{16.9}{33}$

$\frac{1.8}{33}$ $\frac{3.1}{31}$ $\frac{5.3}{23}$ $\frac{6.6}{20}$ $\frac{7.0}{4}$ 8.3 $\frac{10.3}{17}$ $\frac{11.2}{33}$

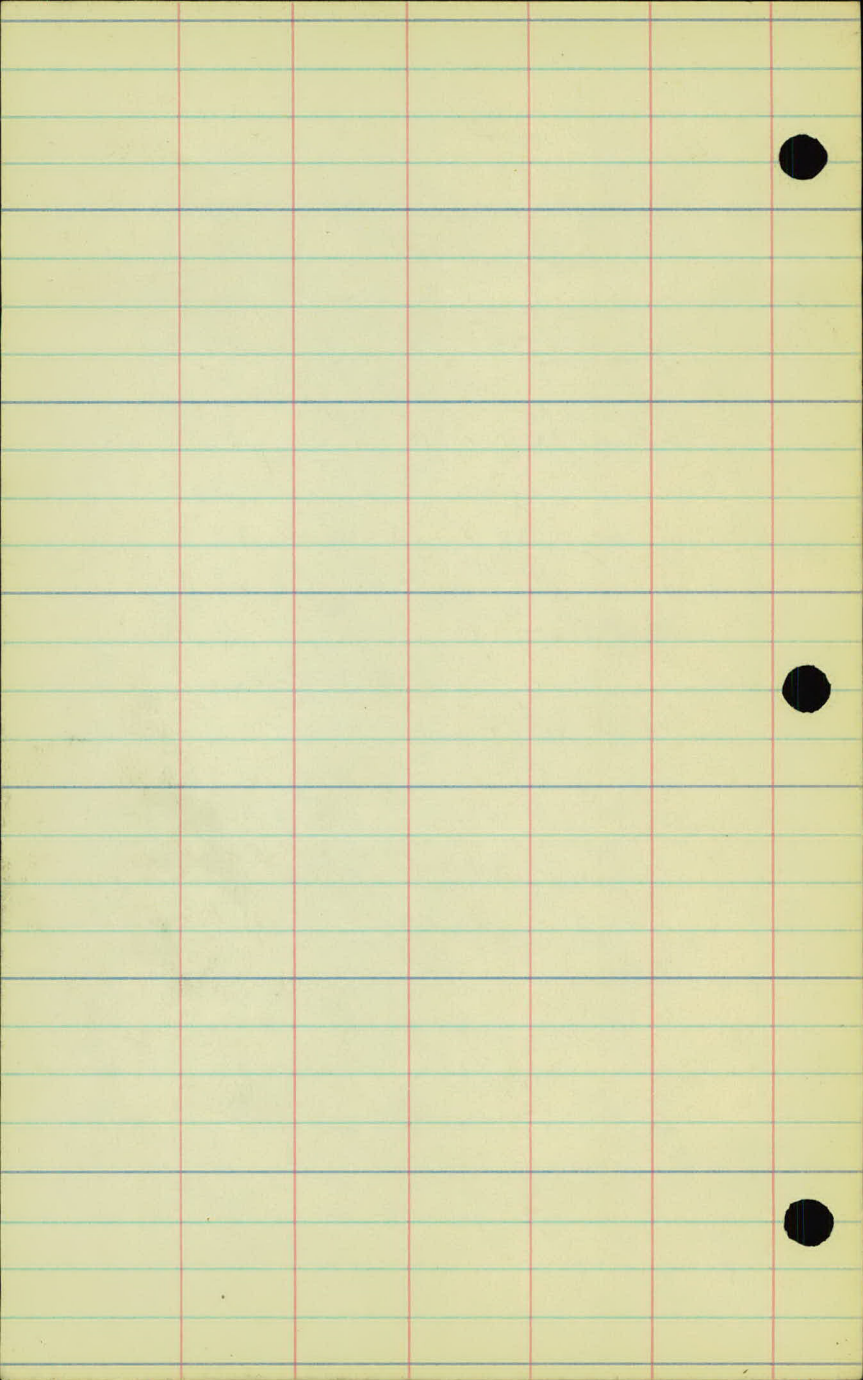
$\frac{11.4}{33}$ $\frac{11.6}{22}$ $\frac{10.2}{18}$ $\frac{9.3}{7}$ 11.4 $\frac{11.6}{17}$ $\frac{11.5}{33}$

$\frac{11.9}{33}$ $\frac{10.9}{11}$ 10.4 $\frac{11.5}{5}$ $\frac{11.5}{33}$

$\frac{12.2}{33}$ $\frac{10.3}{11}$ 9.3 $\frac{9.8}{5}$ $\frac{11.5}{10}$ $\frac{11.4}{33}$

$\frac{10.1}{33}$ $\frac{10.0}{25}$ $\frac{9.2}{14}$ $\frac{8.1}{8}$ 7.6 $\frac{7.9}{4}$ $\frac{8.8}{10}$ $\frac{8.7}{22}$ $\frac{9.0}{33}$

$\frac{5.2}{33}$ $\frac{3.8}{21}$ $\frac{3.0}{6}$ 2.6 $\frac{2.5}{4}$ $\frac{2.1}{10}$ $\frac{2.9}{33}$



East Ave.

Soundings from Sta. 58+00
to Sta. 62+50.

Sounding #1 On Φ at Sta 58+00

0 to 6' Muck.

6' Sand

Sounding #2 On Φ at Sta. 59+00

0 to 10' Muck.

10' Sand.

Sounding #3 On Φ at Sta. 60+00.

0 to 10' Muck.

10' Sand.

Sounding #4 On Φ at Sta. 61+00.

0 to 8' Muck.

8' Sand.

Sounding #5 On Φ at Sta. 62+00.

0 to 5' Muck.

5' Sand.

Sounding #6 On Φ at Sta. 62+50

0 to 5' Muck.

5' Sand.

"A" Line.

East Ave

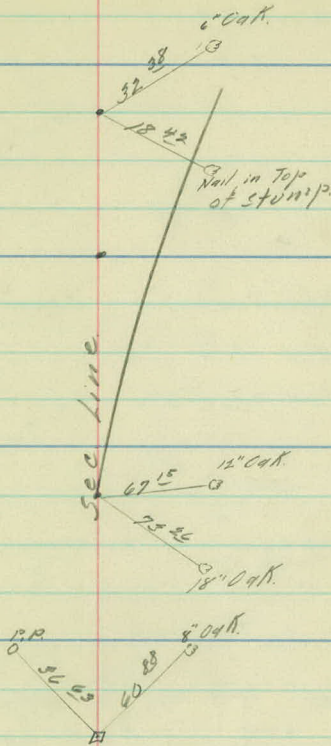
Rd 9¹/₂ H 75.

Alignment on the "A" Line.

from Sta. 23+54 to Sta. 46+12.

Sta.	Point	Lt.	Rt.	Calc. Bearing	Mag. Bearing
32 + 28 ¹⁹	P.T.		46°-37'	5.86°-10' E. ✓	N. 85°-20' E.
32			42°-32'		
+50			35°-17'		
31 + 18 ⁰	P.I.				A-93°-14' R.
31			28°-02'		D-29°
+50			20°-47'		T-211 ³⁰ ✓
30			13°-32'		L-321 ⁴⁹ ✓
+50			6°-17'		R-199 ⁷⁰ ✓
29 + 06 ⁷⁰	P.C.		0°-00'	N 00°-36' E. ✓	N 07°-54' W.
26 + 40 ⁶⁰	P.I.		A=0°-36'		
11 + 00	P.O.T.			N 00°-00' E.	N 08°-30' W.

14" Line



Sta.	Point	Lt.	Rt.	Calc Bearing	Mag. Bearing
47 + 18 ¹⁰	P.O.T. On Main line			N 00° 40' E = N 00° 39' E	N 07° 50' W
46 + 12 ²¹	P.T. =	24° 20'			
46		23° 23'			
+50		19° 38'			
45		15° 53'			
44 + 61 ⁵⁰	P.I.			N 49° 20' E	N 40° 50' E
+50		12° 08'			
44		8° 23'			
+50		4° 38'			
43		0° 53'			
42 + 88 ²⁷	P.C.	0° 00'		N 49° 20' E	N 40° 50' E
41 + 10 ³⁰	P.T.	22° 15'			
+50		19° 14'			
40		16° 44'			
+50		14° 14'			
39 + 00 ⁹	P.I.	11° 44'		N 49° 20' E	N 40° 50' E
+50		9° 14'			
38		6° 44'			
+50		4° 14'			
37		1° 44'			
36 + 65 ³⁰	P.C.	0° 00'		S 86° 10' E	N 85° 20' E

A - 48° 40' L.
 D - 15°
 T - 173²³ ✓
 L - 324⁴⁴ ✓
 R - 383.06

A - 44° 30' L.
 D - 10°
 T - 234⁷⁰ ✓
 L - 445⁰⁰ ✓
 R - 573.69

"A" Line

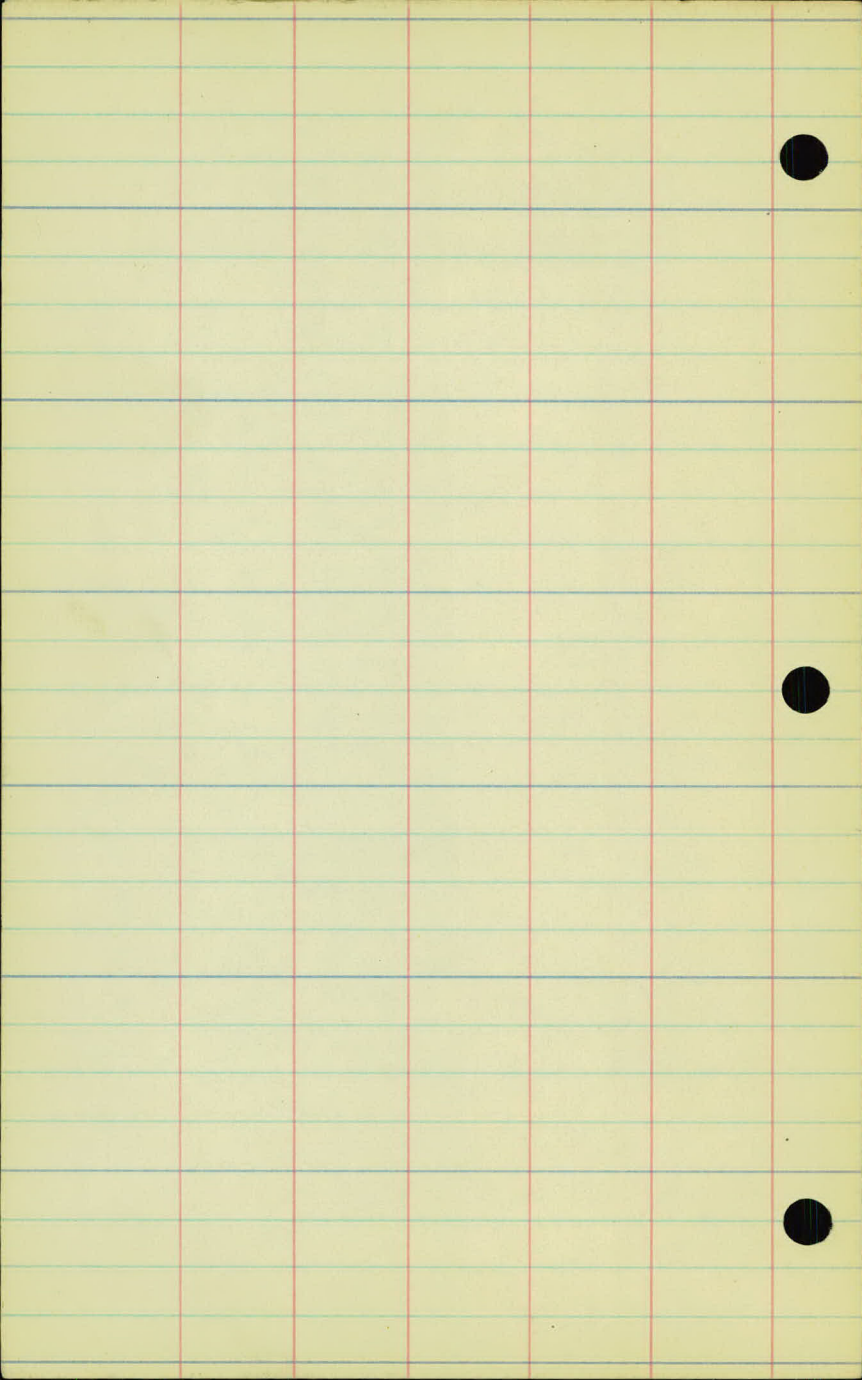
10" Oak.
70 40

53 93 stump



15 37 Tripole Oak

27 24 Twin Oak



"A" Line

East Ave.

Rd 910 #75.

Art. Topog. on the #line
from Sta. 23754 to Sta. 46712.

28

27

26

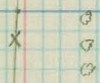
25

24

23

"H" Line.

F. 4'



+97 Cross F.
 +90 Apple Tree 30
 +59 Apple Tree 19
 +21 P.P. 22

F. 9'

+68 P.P. 24



+40 F. Cor. 15
 +40 F. Cor. 15

F. 11



F. 15

+41 P.P. 21

Pasture.



F. 15

F. 11



+48 Twin Oak 10

+12 P.P. 18



F. 16

F. 9'

+29 Twin Oak 7

34

33

32

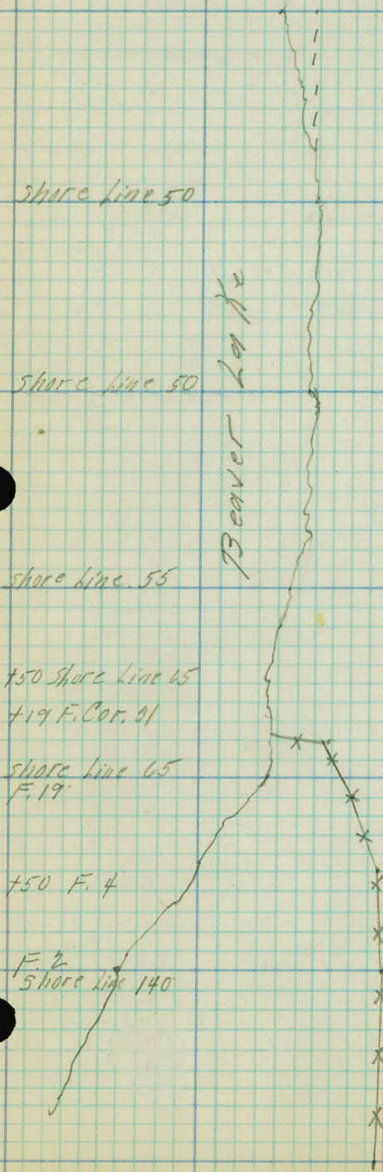
31

30

29

28

A Line



F 51

+105-24"-T-31
 +70-11"-T-31
 +66-75"-T-31

F 49

+94-12"-T-30
 +69-15"-T-30
 +44-6"-T-30
 +27 F. Cor. 46
 +16-12"-T-29
 +93-8"-T-19
 +74-10"-T-15
 +53-8"-T-12

+70-12"-T-30
 +62-12"-T-30

+31 Apple Tree 7

40

39

38

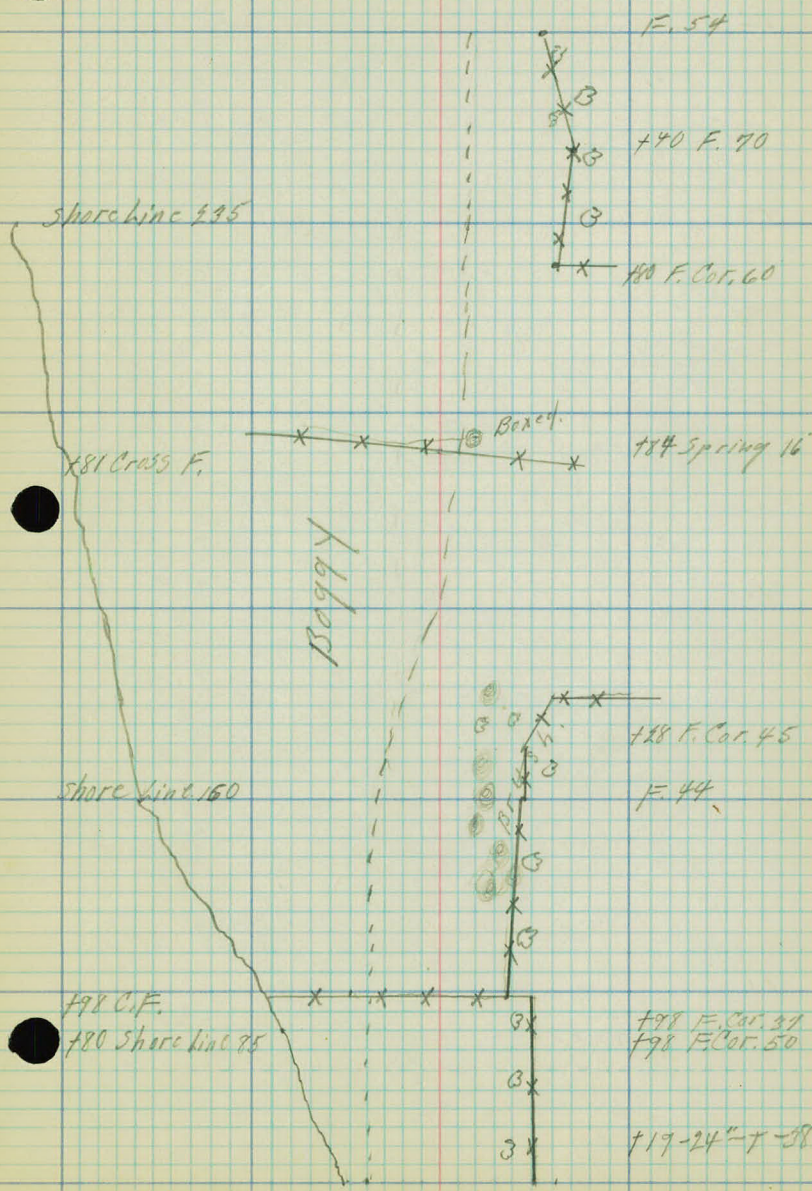
37

36

35

34

"H" line.



46

45

44

43

42

41

40

"A" line.

48700-275 to Shore
line from Main line.

F. 3'

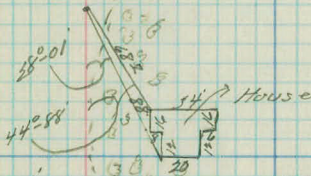
150 F. 6

F. 19

1970-10"-T-19

150 F. 38

Boyy



195 Abandoned Spring. 14'

185 Out House 15

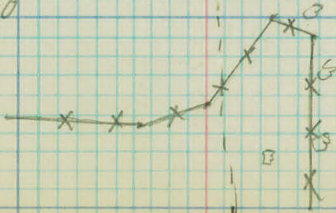
179 Out House 14

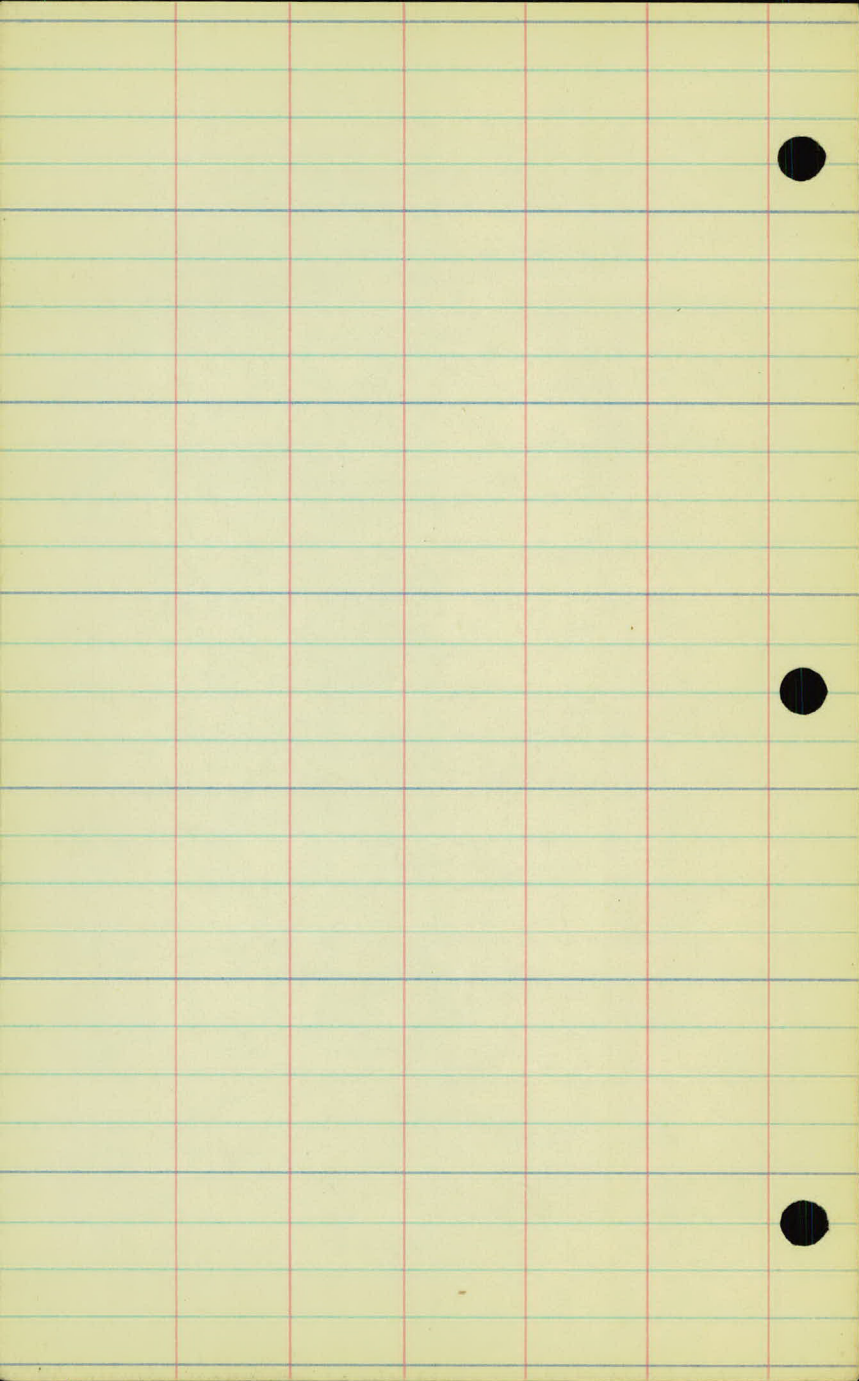
shore line 130

F. Cur. 37

142 F. 34

157 Cross F



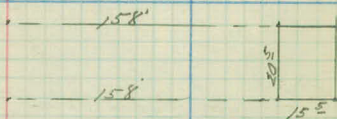


29

f56

f45^E Garage 158

f25 Garage 158

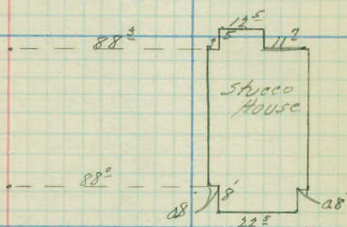


28

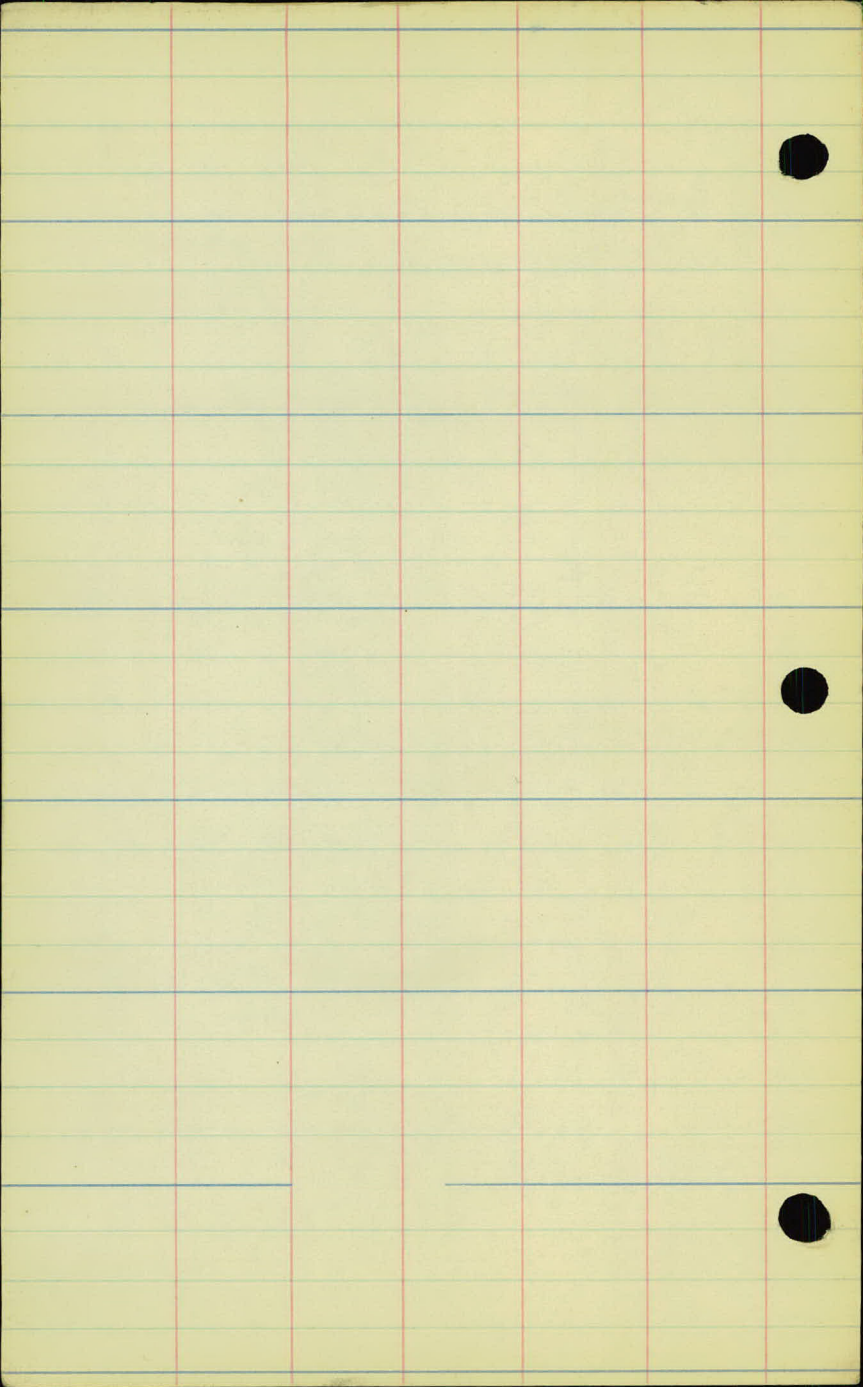
f50

f47 House 88^E

f12 House 88^N



17



"A" Line.

East Ave.

Rd. 9/2 # 75.

Center Line Levels on the
"A" Line from Sta. 23+54 to Sta. 46+12.

Sta.	t	H.I.	-	Red	Elev.
B.M.	4.00	979.16.		975.16	
23 +54				12.0	967.2.
24 +00				7.9	71.3.
+60				3.5	75.7.
25 +00				1.6	77.6.
+50				2.2	76.9.
26 +00				3.5	75.7.
+50				3.5	75.7.
27 +00				4.8	74.4.
+50				7.0	72.2.
28 +00				10.3	68.9.
T.P.	1.24	967.97.	13.05	966.11.	
+50				3.1	64.9
29 +00				10.3	65.9
					57.7
					67.7
T.P.	2.90	959.66.	11.21	956.76.	
+50				6.0	53.7.
30 +00				6.8	52.9.
+50				3.8	55.9.
+82				2.6	57.1.
+96				2.4	57.3.
31 +00				2.7	57.0.
+50				8.0	51.7.
32 +00				10.2	49.5.
+50				10.4	49.3.
33 +00				10.4	49.3.
T.P.	5.32	955.92.	9.16	950.50.	

"A" Line

Spk. in P.P. 125 Lt. 5 to 25 + 75 On Main Line

Spk. in P.P. 23 Lt. 5 to 26 + 70 On "A" Line

Stg	+	H.I.	-	Red.	Flex.
		955.82			
	+50			69	948.9.
34	+00			59	50.1.
	+50			6.3	49.5.
35	+00			6.2	49.6.
	+50			5.9	49.9.
36	+00			5.7	50.1.
	+50			4.7	51.1.
37	+00			4.5	51.3.
	+50			4.8	51.0.
38	+00			5.2	50.6.
T.P.	2.07	957.24.	0.65	955.17.	
	+50			7.3	49.9.
39	+00			7.7	49.5.
B.M.				7.64	949.58.
	+50			7.8	49.4.
40	+00			8.5	48.7.
	+50			8.3	48.9.
41	+00			8.1	49.1.
	+50			8.1	49.1.
42	+00			7.6	49.6.
	+50			7.1	50.1.
43	+00			8.2	49.0.
T.P.	6.50	950.21.	7.33	949.91.	
	+50			7.4	48.8.
44	+00			7.3	48.9.

2-9-27

H Line

Prof Elev.

8.2 947.6 = Top of Ice. 2/9/27.
Beaver Lake

Spk. in stump 80 L. 574.39 + 00

Sta.	+	H.I.	-	Rod	Elev.
		956.21.			
	+50			7.0	949.2.
	45 +00			6.8	49.4.
	+18			4.9	51.3.
	+50			5.0	51.2.
	46 +00			7.2	49.0.
	46 +12 P.T.			7.2	49.0.
	B.M.		4.07	952.14.	952.17

"A" line.

East Ave.

Rd 9¹/₂ # 75.

X sections from Sta 23+54
to Sta 46+12.

Sta

Flex.

23+54⁵²

967.2 ✓

24+00

71.3 ✓

+60

+4.7

76.0 ✓

25+00

77.6 ✓

+50

76.9 ✓

26+00

75.7 ✓

+50

75.7 ✓

*

27+00

74.4 ✓

+50

72.2 ✓

28+00

68.9 ✓

+50

64.9 ✓

29+00

57.7 ✓

+50

53.7 ✓

Sta.

Elev.

30+00

952.9 ✓

+50

55.9 ✓

+82

57.1 ✓

31+00

57.0 ✓

+50

51.7 ✓

32+00

49.5 ✓

+50

49.3 ✓

33+00

49.3 ✓

+50

48.9 ✓

34+00

50.1 ✓

+50

49.5 ✓

35+00

49.4 ✓

+50

49.9 ✓

"A" Line

Lt. ♀ Rt.

13.5 11.7 10.8 8.8 7.4
33 17 12 10.9 17 33

12.8 10.2 6.5 5.4
33 15 7.5 15 33

12.7 12.3 10.3 7.6 6.4 5.2 3.9
33 24 18 7 3 6.0 18 33

→ Top of Ice line.

13.8 15.3 14.1 12.8 7.9 5.7 4.6 4.1
53 47 42 7 3 6.5 3 20 33

15.0 14.1 12.5 10.8 6.8 4.6 2.4
33 19 4 11.5 3 12 30 34

→ Top of Ice

→ Above ♀ Elev.

9.4 9.0 8.1 5.1 2.3 +8.1 +10.1
50 33 14 7.4 13 22 30 33

→ Above ♀ Elev.

9.0 8.8 5.4 +8.8
33 23 7.6 19 33

→ Top of Ice.

→ Above ♀ Elev

7.4 8.9 8.7 6.5 +8.3
50 33 15 7.6 18 33

→ Above ♀ Elev.

9.0 8.6 7.9 +8.2
33 15 8.0 14 33

8.4 7.6 5.5 3.5
33 15 6.8 23 34

8.4 7.8 7.4 3.5
33 14 7.3 24 33

8.1 7.7 6.6 4.0 2.3
33 14 7.2 15 29 33

8.4 7.5 5.1 0.7
33 14 7.0 16 33

Sta.	Elev.
36+00	950.1 ✓
+50	51.1 ✓
37+00	51.3 ✓
+50	51.0 ✓
38+00	50.6 ✓
+50	49.9 ✓
39+00	49.5 ✓
+50	49.4 ✓
40+00	48.7 ✓
+50	48.9 ✓
41+00	49.1 ✓
+50	49.1 ✓
42+00	49.6 ✓

417.95
14' LT.

Lt. ♀ Rt.

"A" Line.

$\frac{9.6}{33}$	$\frac{9.2}{21}$	8.7	$\frac{6.3}{15}$	$\frac{2.8}{15}$	$\frac{0.2}{33}$
------------------	------------------	-----	------------------	------------------	------------------

$\frac{9.0}{33}$	$\frac{8.3}{14}$	7.8	$\frac{5.4}{17}$	$\frac{18.8}{30}$	
------------------	------------------	-----	------------------	-------------------	--

Above & bet.

$\frac{8.8}{33}$	$\frac{7.8}{13}$	7.6	$\frac{6.2}{20}$	$\frac{3.7}{33}$	
------------------	------------------	-----	------------------	------------------	--

$\frac{7.2}{33}$	$\frac{8.6}{12}$	8.0	$\frac{6.9}{19}$	$\frac{5.2}{33}$	
------------------	------------------	-----	------------------	------------------	--

$\frac{9.4}{33}$	$\frac{9.1}{17}$	8.5	$\frac{7.0}{27}$	$\frac{6.7}{33}$	
------------------	------------------	-----	------------------	------------------	--

$\frac{9.6}{33}$	$\frac{9.3}{16}$	9.0	$\frac{8.6}{19}$	$\frac{7.9}{33}$	
------------------	------------------	-----	------------------	------------------	--

$\frac{10.2}{33}$	$\frac{9.8}{18}$	9.3	$\frac{8.9}{19}$	$\frac{7.9}{33}$	
-------------------	------------------	-----	------------------	------------------	--

$\frac{10.7}{33}$	$\frac{10.2}{18}$	9.5	$\frac{9.2}{16}$	$\frac{7.5}{33}$	
-------------------	-------------------	-----	------------------	------------------	--

$\frac{10.4}{33}$	$\frac{10.5}{18}$	10.2	$\frac{9.4}{17}$	$\frac{7.3}{33}$	
-------------------	-------------------	------	------------------	------------------	--

$\frac{10.8}{33}$	$\frac{10.7}{24}$	10.0	$\frac{9.4}{17}$	$\frac{8.3}{25}$	$\frac{5.4}{33}$
-------------------	-------------------	------	------------------	------------------	------------------

$\frac{10.8}{33}$	$\frac{10.7}{20}$	9.8	$\frac{8.4}{21}$	$\frac{4.2}{33}$	
-------------------	-------------------	-----	------------------	------------------	--

$\frac{10.7}{33}$	$\frac{10.4}{18}$	9.8	$\frac{8.5}{13}$	$\frac{8.0}{24}$	$\frac{4.6}{33}$
-------------------	-------------------	-----	------------------	------------------	------------------

$\frac{10.5}{33}$	$\frac{10.3}{14}$	9.2	$\frac{8.0}{14}$	$\frac{3.4}{33}$	
-------------------	-------------------	-----	------------------	------------------	--

Sta	Elev.
42+50	950.1 ✓
43+00	49.0 ✓
+50	48.8 ✓
44+00	48.9 ✓
+50	49.2 ✓
45+00	49.4 ✓
+18	51.5 ✓
+50	51.2 ✓
46+00	49.0 ✓
+12 P.T.	49.0 ✓

"A" line.

L. Q. Pt.

$\frac{10.2}{33}$	$\frac{7.8}{20}$	8.8	$\frac{7.9}{4}$	$\frac{6.6}{14}$	$\frac{5.2}{17}$	$\frac{4.4}{33}$
-------------------	------------------	-----	-----------------	------------------	------------------	------------------

$\frac{6.0}{33}$	$\frac{6.3}{20}$	6.4	$\frac{5.7}{19}$	$\frac{5.0}{33}$
------------------	------------------	-----	------------------	------------------

$\frac{6.9}{33}$	$\frac{7.6}{20}$	6.5	$\frac{6.6}{18}$	$\frac{6.7}{33}$
------------------	------------------	-----	------------------	------------------

$\frac{6.3}{33}$	$\frac{7.6}{13}$	6.5	$\frac{6.1}{14}$	$\frac{6.1}{33}$
------------------	------------------	-----	------------------	------------------

$\frac{7.0}{33}$	$\frac{6.8}{16}$	6.2	$\frac{6.5}{7}$	$\frac{7.1}{10}$	$\frac{7.1}{19}$	$\frac{5.3}{25}$	$\frac{5.1}{33}$
------------------	------------------	-----	-----------------	------------------	------------------	------------------	------------------

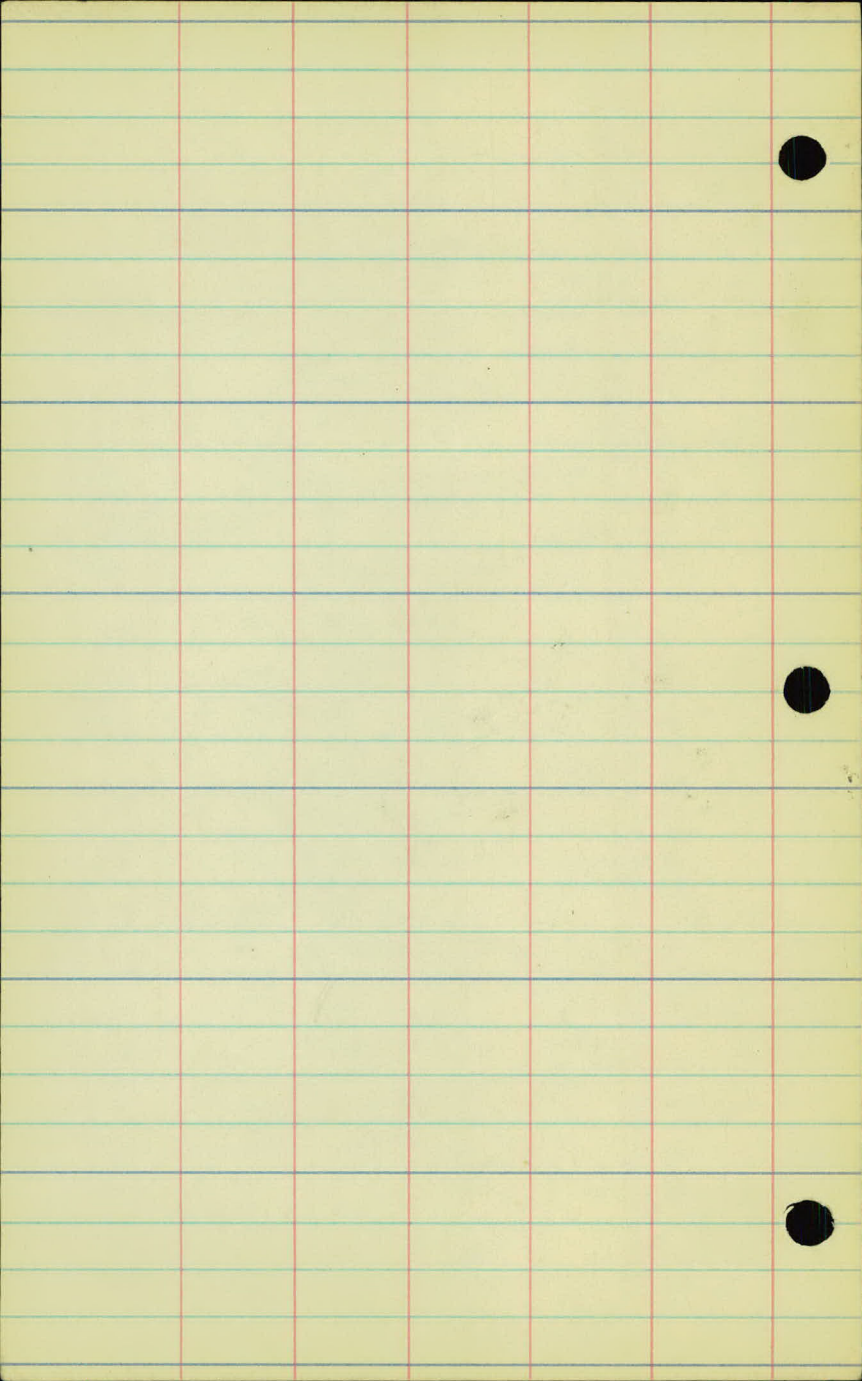
$\frac{4.2}{33}$	$\frac{4.2}{19}$	$\frac{5.8}{12}$	$\frac{6.8}{4}$	6.0	$\frac{4.3}{9}$	$\frac{4.2}{13}$	$\frac{6.6}{15}$	$\frac{6.6}{17}$	$\frac{5.9}{20}$	$\frac{6.3}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------	------------------	------------------	------------------	------------------

$\frac{4.5}{33}$	$\frac{4.5}{22}$	$\frac{5.5}{13}$	$\frac{5.5}{7}$	4.1	$\frac{4.3}{7}$	$\frac{6.4}{11}$	$\frac{7.1}{13}$	$\frac{6.3}{16}$	$\frac{6.2}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------	------------------	------------------	------------------

$\frac{4.9}{33}$	$\frac{5.9}{13}$	$\frac{7.4}{8}$	4.2	$\frac{4.4}{5}$	$\frac{6.5}{10}$	$\frac{6.5}{33}$
------------------	------------------	-----------------	-----	-----------------	------------------	------------------

$\frac{4.7}{33}$	$\frac{6.0}{18}$	$\frac{4.0}{13}$	$\frac{4.0}{5}$	6.5	$\frac{6.6}{13}$	$\frac{6.3}{33}$
------------------	------------------	------------------	-----------------	-----	------------------	------------------

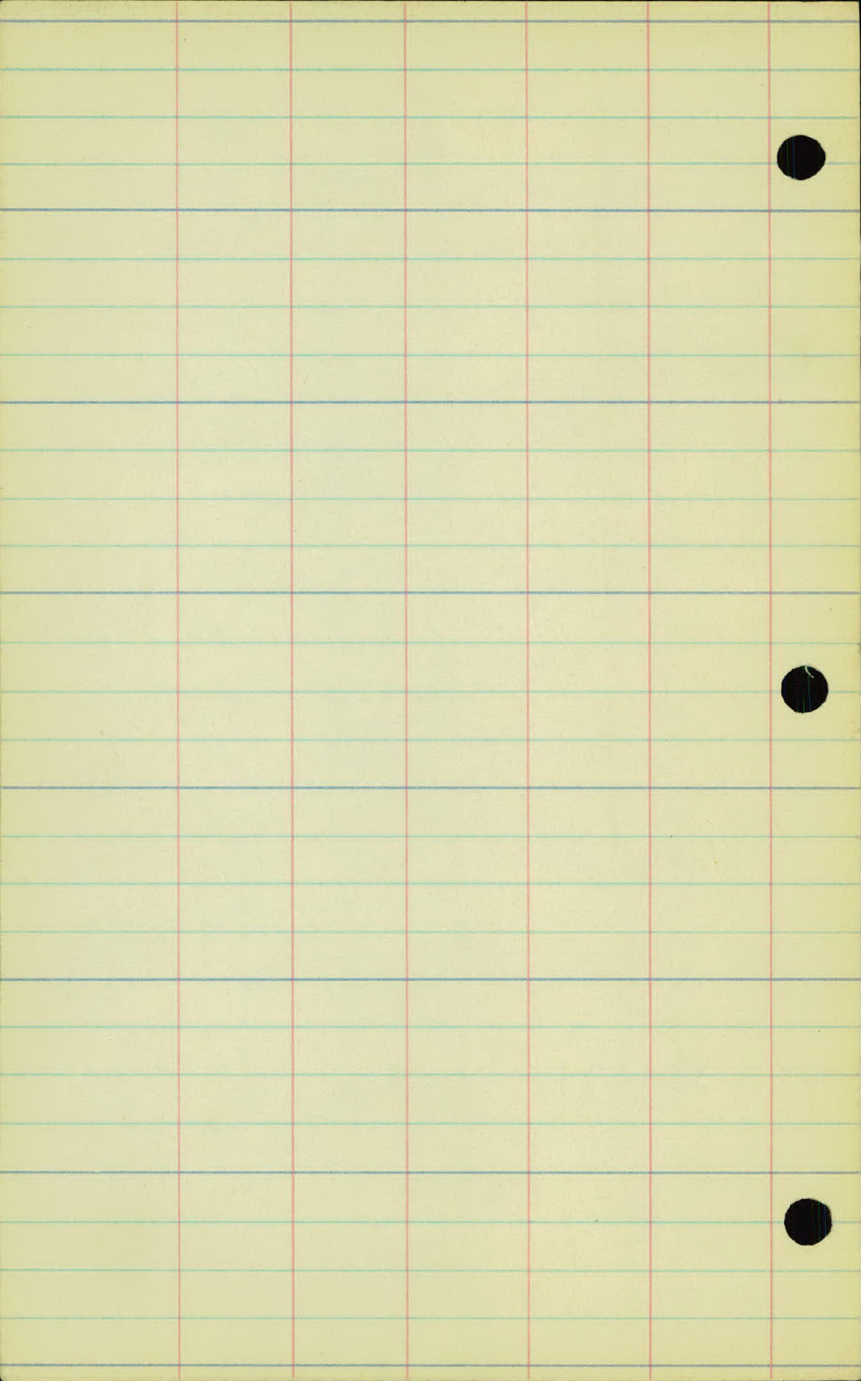
$\frac{4.5}{33}$	$\frac{5.7}{17}$	$\frac{4.0}{13}$	$\frac{3.8}{6}$	6.4	$\frac{6.9}{4}$	$\frac{6.5}{33}$
------------------	------------------	------------------	-----------------	-----	-----------------	------------------



2-9-27

A line.

Spk in Tree Lt Sta. 46+06 On Main line.



"A" line.

East Ave.

Soundings on the "A" line

3

Sounding #1 On Q. at sta. 33+00

0' to 2' Muck.

2' Sand.

Sounding #2 On Q. at sta. 35+00

0' to 2' Muck.

2' Sand.

Sounding #3 On Q. at sta. 37+00

0' to 5' Muck.

5' Sand.

Sounding #4 On Q. at Sta. 39+00

0' to 5' Muck.

5' Sand.

Sounding #5 On Q. at Sta. 41+00

0' to 3' Muck.

3' Sand.

Sounding #6 On Q. at Sta. 43+00

0' to 3' Muck.

3' Sand.

"A" Line.

Sounding # 7 On Φ at Sta. 43+50

0' to 10' Muck

10' Sand

Sounding # 8 - 10' Lt. Sta. 43+50

0' to 10' Muck.

10' Sand.

Sounding # 9 On Φ at Sta. 44+00.

0' to 8' Muck.

8' Sand

Sounding # 10 On Φ at Sta. 44+50

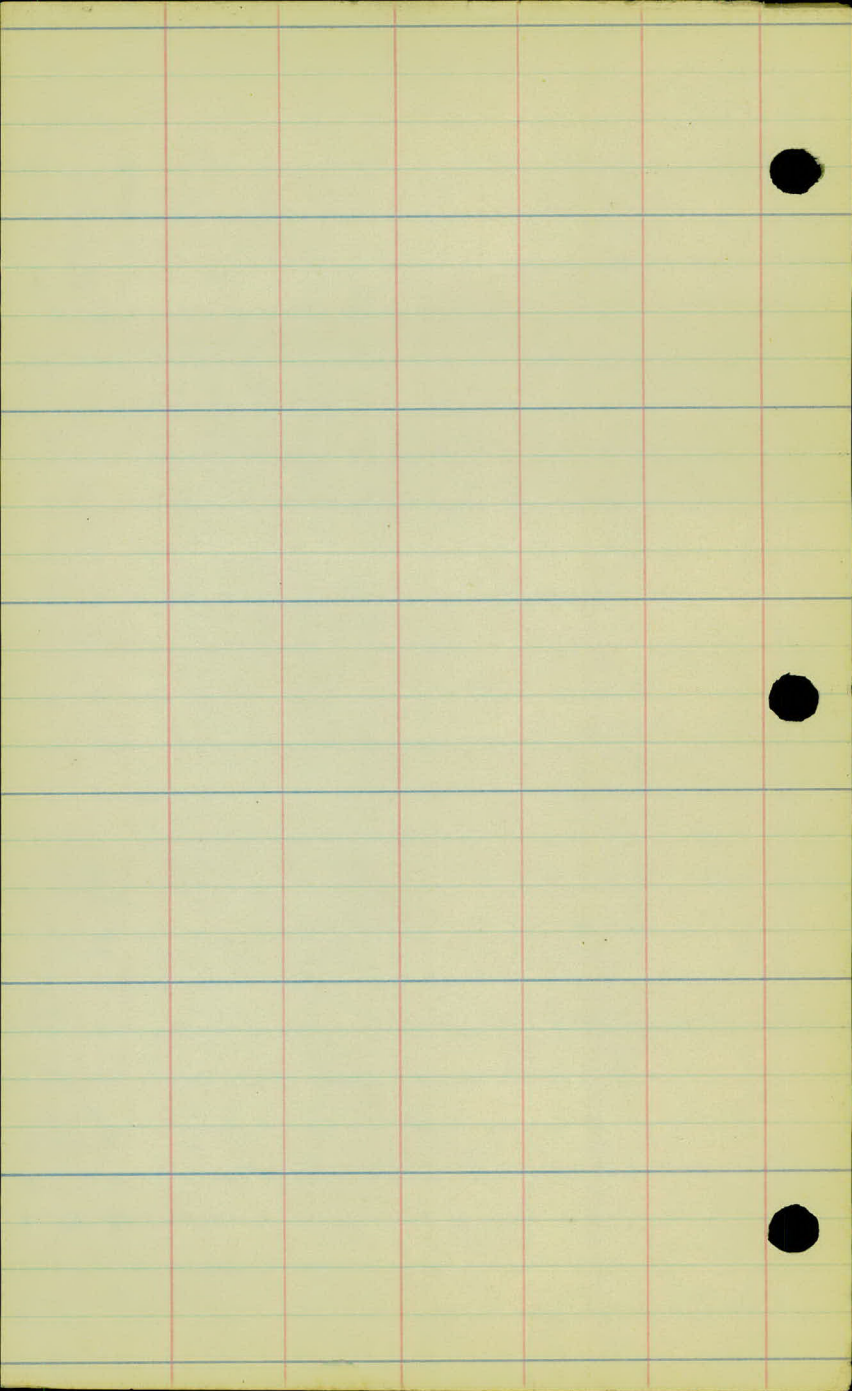
0' to 5' Muck.

5' Sand.

Sounding # 11 On Φ at Sta. 45+00

0' to 2' Muck.

2' Sand.



"B" Line.

East Ave

Rd 7e # 75.

Alignment on the "B" Line
from Sta. 54+61 to Sta. 74+68.

Sta.	Point	Lt.	Rt.	Calc Bearing	Mag. Bearing
59+16 ⁷⁰	P.T.	45°-52 ⁵		S. 89°-54' W.	N 83°-14' W.
59		43°-52			
+50		38°-52			
58		33°-52			
57+54 ⁷⁰	P.I.				A-91°-05' L.
+50		28°-52			D-20°
57		23°-52			T-293 ⁴¹
+50		18°-52			L-455 ⁴¹
56		13°-52			R-287 ⁹⁴
+50		8°-52			
55		3°-52			
54+61 ³⁹	P.C.	0°-0'			
51+91 ⁷⁵	P.O.T.			N 00°-59' E.	N 07°-51' W.

B" line

29
16
O.F. Post.

59 40
O stamp.

Sta. Point Lt. Rt. Calc Bearing Mag. Bearing

58³⁰
 74+68³⁰ P.O.T.

N 00°-37' E = N 00°-36' E

N 07°-53' W.

71+08⁵⁹ P.T.

45°-31' E

150

39°-40'

70

34°-40'

150

29°-40'

69+46⁵⁸ P.I.

A-91°-03' R.

67

24°-40'

D-20°

150

19°-40'

T-293²⁴

68

14°-40'

L-455²⁵

150

9°-40'

R-287²⁴

67

4°-40'

66+53³⁴ P.C.

0°-00'

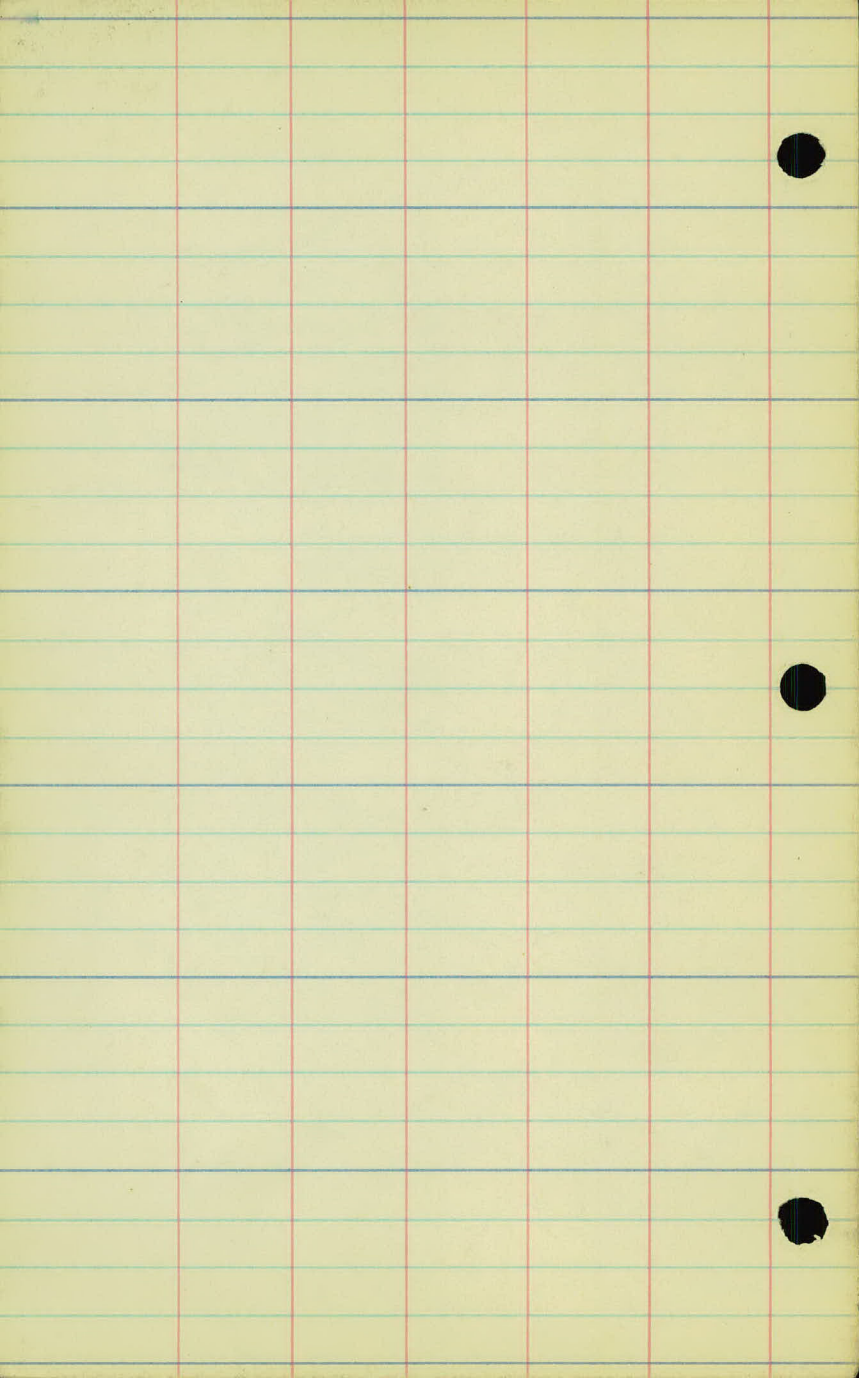
S. 89°-34' W.

S. 81°-04' W.

"B" line.

T.I.P.
0 59 65 57 Stone Mt.

12" Willow
31
34
36
Twin Willow
54 36



"B" Line.

East Ave.

Rd 9c #75.

Art. Topog. on the "B" Line.
From Sta. 54+61 to Sta. 74+68.

59

58

57

56

55

54

"B" Line



Hay
Meadow

130994

+27 F. 2.
F. 35'

F. 36

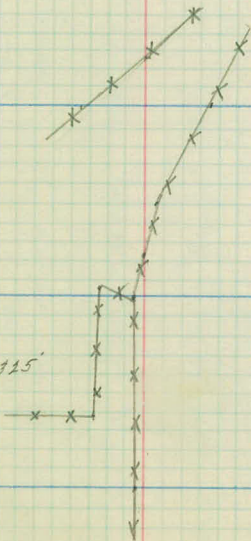
+21 F. 2.
+05 F. Cor. 24

+50 F. 8

+78 F. Cor. 4'
+60 Shore Line of Lake 325'

+38 F. Cor. 28

F. 4'



65

64

63

62

61

60

59

"B" Line.

shore line 35

shore line 34

shore line 45

shore line 61

shore line 90

190 Shore Line 130

Beaver Lake

Beaver

shore line
SWAMP

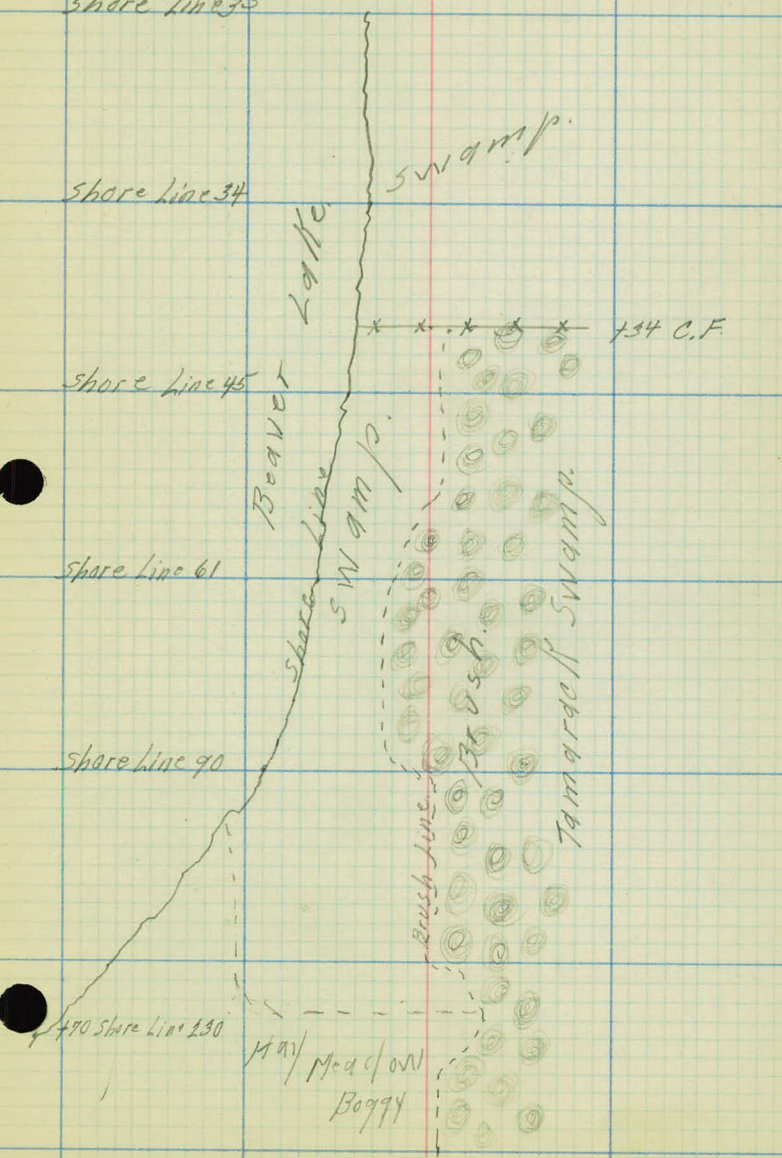
SWAMP

134 C.F.

Rush line
fish

Tamarack SWAMP

Hay Meadow
Boggy



71

70

69

68

67

66

65

"B" Line.

Hay
Meadow.

100 = distance from
49140 P.I. to Shore line

3099 \



+78 C.F.
+65 F. 67

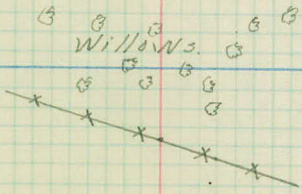
3099 \

+22-12"-T-2

+99-12"-T-5

+77-12"-T-5

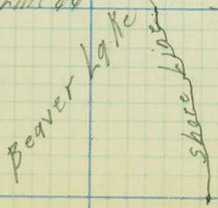
+53 Shore Line 160



+63 C.F.
+55 F. 29

Shore line 66

Swamp



75

74

73

72

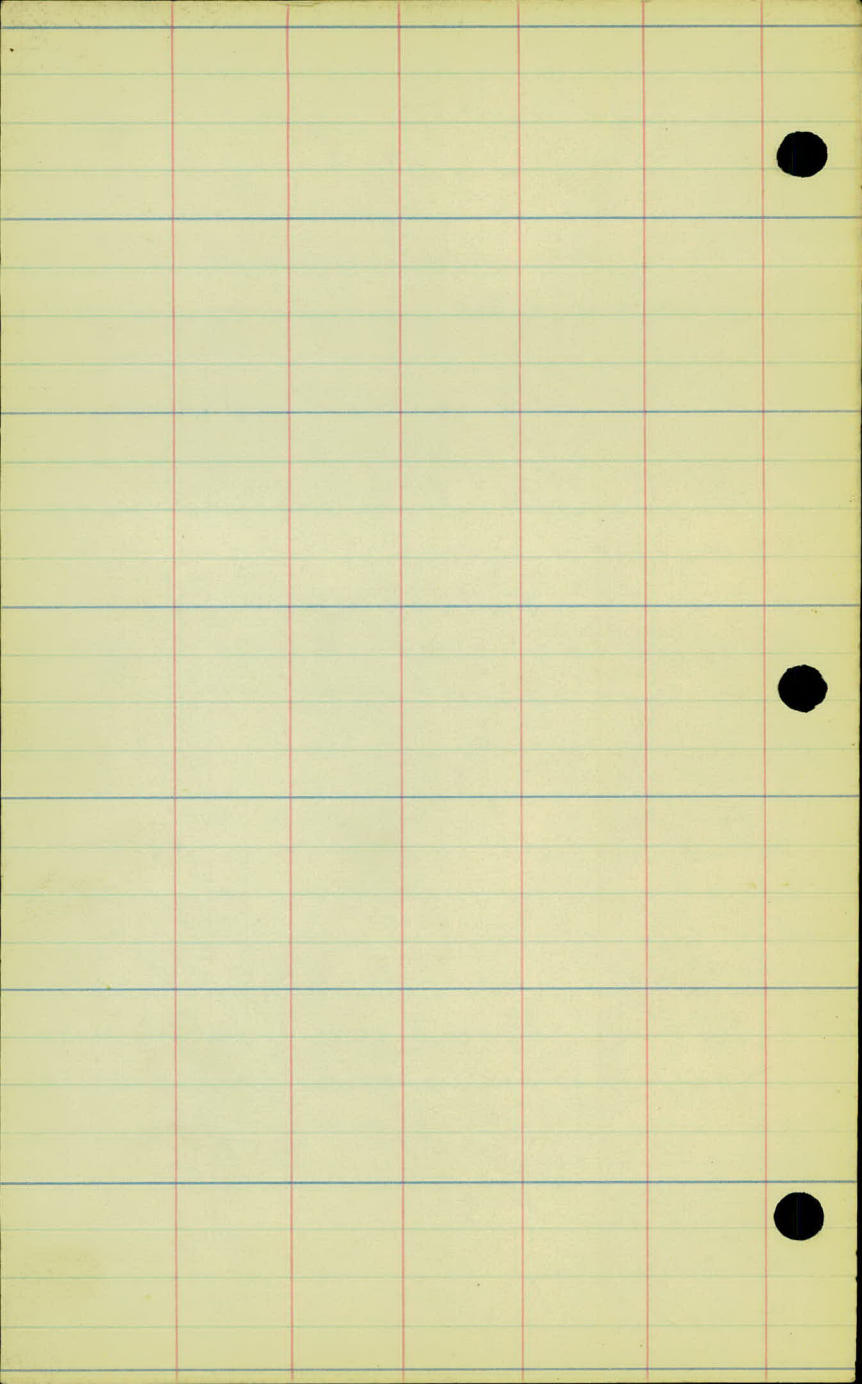
71

2-7-27

"B" Line.

497 T. P. G.

Hay
Meadow.



"B" Line.

East Ave.

Rd 9/2 #175.

Center Line Levels on the
"B" Line from Sta 54+61 to Sta 74+68.

Sta.	+	H.I.	-	Red.	Elev
B.M.	11.14	962.99 ¹		951.83	✓
T.P.	12.95	975.24 ¹	0.70	962.29	✓
T.P.	8.28	981.91 ¹	1.61	973.63	✓
T.P.	2.00	977.64 ¹	6.25	975.64	✓
54+61 ⁶⁹				2.4	975.1
55+00				1.9	75.8
+20				1.7	76.0
+50				4.8	72.9
+62				6.0	71.7
T.P.	1.59	966.80 ¹	12.45	965.21	✓
56+00				8.4	58.4
T.P.	1.71	955.91 ¹	12.60	954.20	✓
+19				3.7	52.2
+50				6.8	49.1
57+00				7.4	48.5
B.M.			4.08	951.83 ¹	
+50				7.8	48.1
58+00				7.7	48.2
+50				8.0	47.9
59+00				8.0	47.9
T.P.	4.13	953.04 ¹	7.00	948.91	✓
60+00				5.5	47.5
61+00				5.2	47.8
62+00				5.5	47.5
63+00				5.2	47.8
64+00				5.8	47.2

2-11-27

Spt. in F.P. Mt. Sta. 57+62
"B" Line.

Spt. in F. Cor. 125 Mt. Sta 57+00

Rod. Elev.

5.4 947.6 = Beaver Lake Elev. 2-11-27.
Top of Eoc.

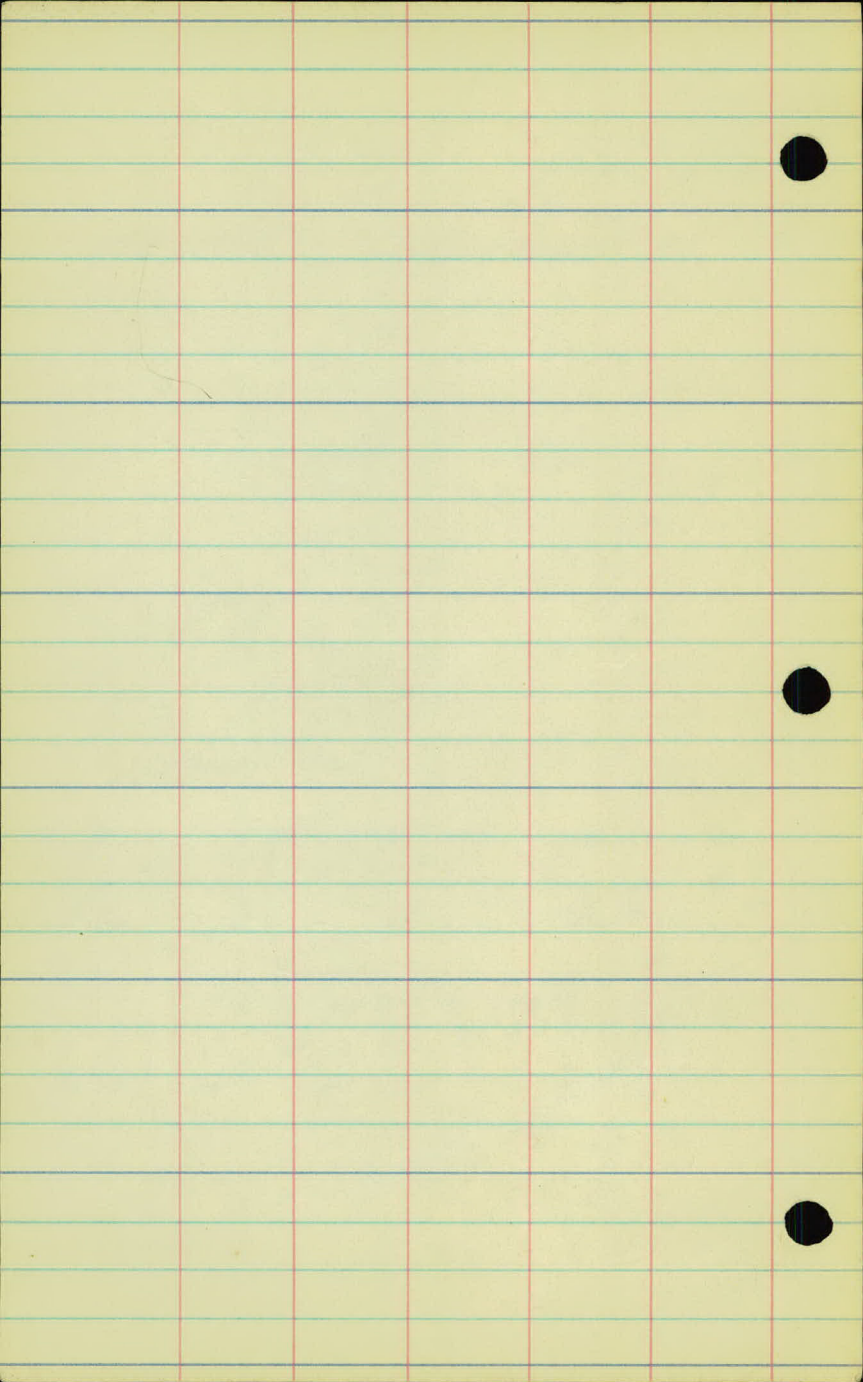
Sta.	+	H.I.	-	Rod	Elev.
		953.04			
65+00				5.7	947.3.
66+00				5.2	47.8.
T.P.	6.97	955.96 ✓	4.05	948.99 ✓	
67+00				7.4	48.6.
750				7.2	48.8.
B.M.				5.64	950.32.
68+00				6.0	50.0.
750				5.7	50.3.
69+00				6.1	49.9.
750				4.3	51.7.
70+00				1.5	54.5.
T.P.	12.29	967.86 ✓	0.39	955.57 ✓	
750				10.6	57.3.
71+00				10.1	57.8.
72+00				7.8	60.1.
73+00				4.3	63.6.
760				3.5	64.4.
T.P.	10.32	977.69 ✓	0.49	967.37 ✓	
74+00				11.6	66.1.
730				8.0	69.7.
768 ³⁰				6.0	71.7.
B.M.			2.12	975.57 ✓	975.58

2-11-27

"B" line.

Spk. in 12" Willow. 40 Mt. Sta. 47+65.

Spk. in T.P. Mt. Sta. 75+90.



"B" Line.

East Ave.

Rd. 96 # 75.

X Sections on the "B" Line.
from Sta. 54+66 to Sta. 74+68.

Sta.

Elev.

54 + 61⁶⁹

775.1 ✓

55 + 00

75.8 ✓

+ 20

76.0 ✓

+ 62

71.7 ✓

56 + 00

52.4 ✓

+ 19

52.2 ✓

+ 50

49.1 ✓

57 + 00

48.5 ✓

+ 50

48.1 ✓

58 + 00

48.2 ✓

+ 50

47.9 ✓

59 + 00

47.9 ✓

60 + 00

47.5 ✓

"B" Line:

Lt. R.

Above & Elev.

7.9	6.7	5.2	1.2	0.0	+5.5
<u>33</u>	<u>23</u>	<u>8</u>	<u>4.2</u>	<u>20</u>	<u>26</u>
					<u>33</u>

→ Above & Elev.

7.5	6.7	4.8	0.4	+5.0	
<u>33</u>	<u>26</u>	<u>15</u>	<u>3.6</u>	<u>22</u>	
					<u>33</u>

→ Above & Elev.

6.9	6.4	4.1	1.3	+2.4	
<u>33</u>	<u>30</u>	<u>7</u>	<u>3.4</u>	<u>21</u>	
					<u>33</u>

26.5	26.0	11.7	7.7	6.2	
<u>70</u>	<u>66</u>	<u>19</u>	<u>7.6</u>	<u>15</u>	
					<u>33</u>

→ Above & Elev.

16.2	13.2	0.9	+10.8
<u>43</u>	<u>19</u>	<u>8.3</u>	<u>25</u>
			<u>45</u>

16.0	15.7	12.7	11.0
<u>33</u>	<u>19</u>	<u>14.5</u>	<u>26</u>
			<u>40</u>

x

4.9	3.7	3.4
<u>33</u>	<u>43</u>	<u>22</u>
		<u>33</u>

5.0	4.6
<u>33</u>	<u>48</u>
	<u>33</u>

5.1	5.1
<u>33</u>	<u>52</u>
	<u>33</u>

5.3	5.3
<u>33</u>	<u>52</u>
	<u>33</u>

5.4	5.4
<u>33</u>	<u>55</u>
	<u>33</u>

5.5	5.4
<u>33</u>	<u>55</u>
	<u>23</u>

5.7	5.7
<u>33</u>	<u>57</u>
	<u>33</u>

Sta.	Elev.
61 + 00	947.8 ✓
62 + 00	47.5 ✓
63 + 00	47.8 ✓
64 + 00	47.2 ✓
65 + 00	47.3 ✓
66 + 00	47.8 ✓
67 + 00	48.6 ✓
+ 50	48.8 ✓
68 + 00	50.0 ✓
+ 50	50.3 ✓
69 + 00	49.9 ✓
+ 50	51.7 ✓
70 + 00	54.5 ✓

"B" Line.

Lt. Q Rt.

$$\begin{array}{r} 5.7 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.6 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.7 \\ 33 \\ \hline \end{array}$$
 ↗ Top of Ice shore Line

$$\begin{array}{r} 5.3 \\ 60 \\ \hline \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.4 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.0 \\ 33 \\ \hline \end{array}$$

↗ Top of Ice

$$\begin{array}{r} 5.3 \\ 44 \\ \hline \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.0 \\ 33 \\ \hline \end{array}$$

↗ Top of Ice

$$\begin{array}{r} 5.4 \\ 35 \\ \hline \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.6 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.7 \\ 33 \\ \hline \end{array}$$

↗ Top of Ice.

$$\begin{array}{r} 5.4 \\ 35 \\ \hline \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.5 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.7 \\ 33 \\ \hline \end{array}$$

↗ Top of Ice.

$$\begin{array}{r} 5.4 \\ 83 \\ \hline \end{array}$$

$$\begin{array}{r} 5.0 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.1 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.7 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.5 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 4.4 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 9.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 10.1 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8.1 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8.8 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8.4 \\ 20 \\ \hline \end{array}$$

$$\begin{array}{r} 7.3 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8.0 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 8.5 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 7.6 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8.6 \\ 15 \\ \hline \end{array}$$

$$\begin{array}{r} 8.5 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 7.2 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 7.8 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7.0 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.2 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 5.9 \\ 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7.1 \\ 15 \\ \hline \end{array}$$

$$\begin{array}{r} 7.6 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 2.4 \\ 33 \\ \hline \end{array}$$

$$\begin{array}{r} 3.5 \\ 13 \\ \hline \end{array}$$

$$\begin{array}{r} 4.3 \\ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 5.4 \\ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 6.9 \\ 33 \\ \hline \end{array}$$

Sta.

Elev.

+50

957.3 ✓

71+00

57.8 ✓

72+00

60.1 ✓

73+00

63.6 ✓

+60

64.4 ✓

74+00

66.1 ✓

+50

69.7 ✓

+68 ³⁰

71.7 ✓

"B" line .

lt. ♀ ft.

$\frac{0.8}{33}$ $\frac{0.8}{15}$ 1.6 $\frac{2.8}{19}$ $\frac{4.4}{33}$

$\frac{10.3}{33}$ $\frac{10.5}{12}$ 11.3 $\frac{12.4}{33}$

$\frac{8.7}{33}$ 9.0 $\frac{10.0}{33}$

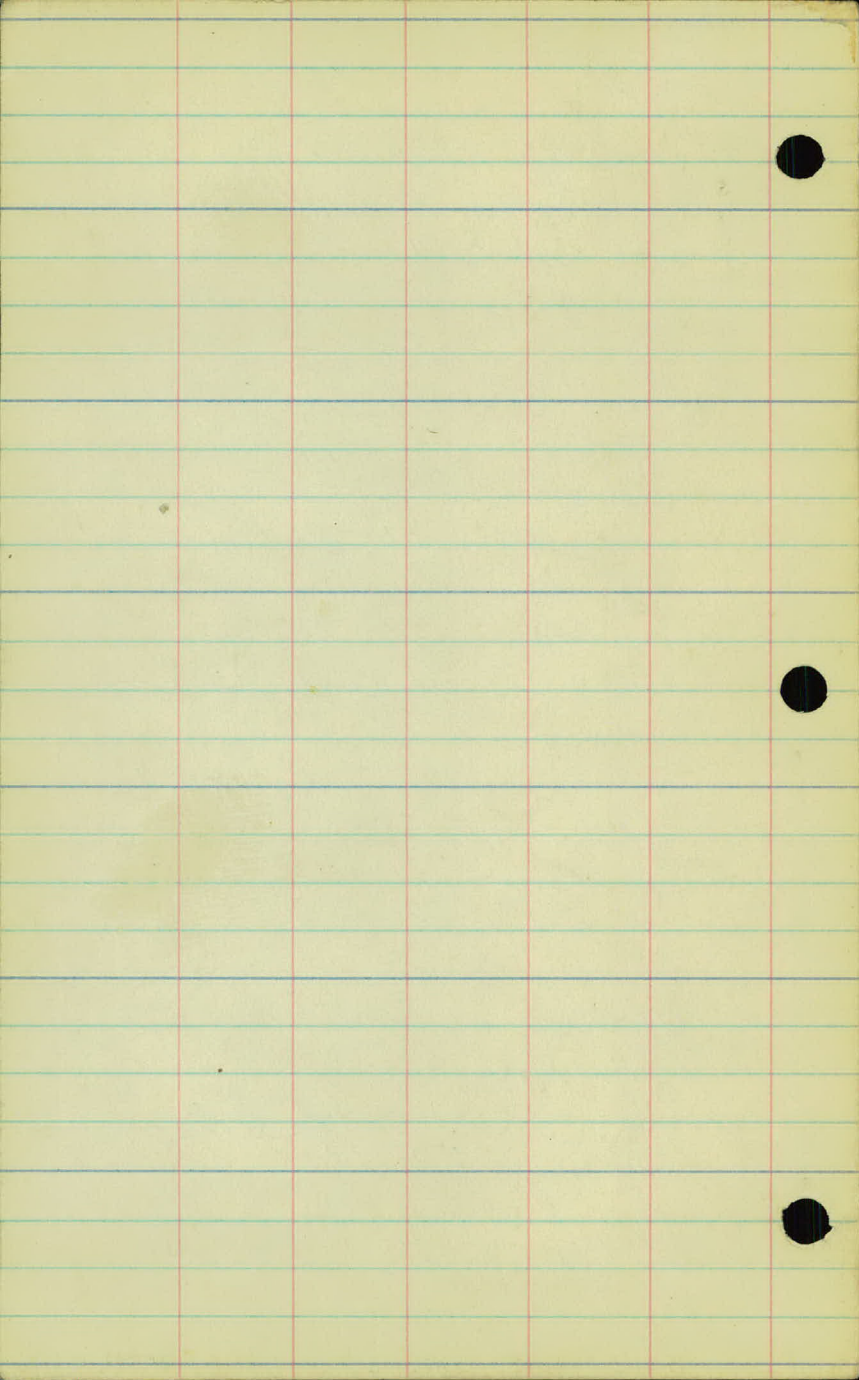
$\frac{5.3}{33}$ 5.5 $\frac{6.0}{33}$

$\frac{4.5}{33}$ 4.7 $\frac{5.4}{33}$

$\frac{2.2}{33}$ $\frac{2.5}{8}$ 2.9 $\frac{3.9}{33}$

$\frac{5.6}{33}$ $\frac{6.5}{18}$ 7.4 $\frac{10.2}{33}$

$\frac{2.9}{33}$ $\frac{4.1}{19}$ 5.4 $\frac{8.8}{33}$



"B" Line.

East Ave.

Soundings on the "B" Line.
from Sta. 56+00 - 68+00.

Sounding #1 On Φ . Sta. 56+50.
0' to 2' Muck.
2' Sand.

Sounding #2 On Φ . at Sta. 57+00
0' to 9 $\frac{1}{2}$ ' Muck.
9 $\frac{1}{2}$ ' Sand.

Sounding #3 On Φ . at Sta. 57+50.
0' to 14' soft Muck.
14' Clay.

Sounding #4 On Φ . at Sta. 58+00
0' to 18' soft Muck.
18' Sand.

Sounding #5 - 20' At Sta. 58+00
0' to 14' soft Muck.
14' Firm Bottom

Sounding #6 - 20' At Sta. 58+00
0' to 18' soft Muck.
18' Sand.

2-14-27
Snow.

Sounding # 7 On Q. at Sta. 59+00
0 to 24' soft Muck.
24' Clay.

Sounding # 8 On Q. at Sta. 60+00
0 to 31' Muck Very Soft.
Get at Pipe.

Sounding # 9 - 20' Lt. Sta. 60+00
0 to 31' Muck Very Soft.

Sounding # 10 On Q. at Sta. 61+00
0 to 31' Muck Very Soft.

Sounding # 11 On Q. at Sta. 62+00.
0 to 18' Muck Very Soft
18' Firm Bottom

Sounding # 12 On Q. at Sta. 63+00
0 to 10' Muck. Soft.
10' Sand

Sounding # 13 On Q. at Sta. 64+00.
0 to 8' Soft Muck
8' Sand.

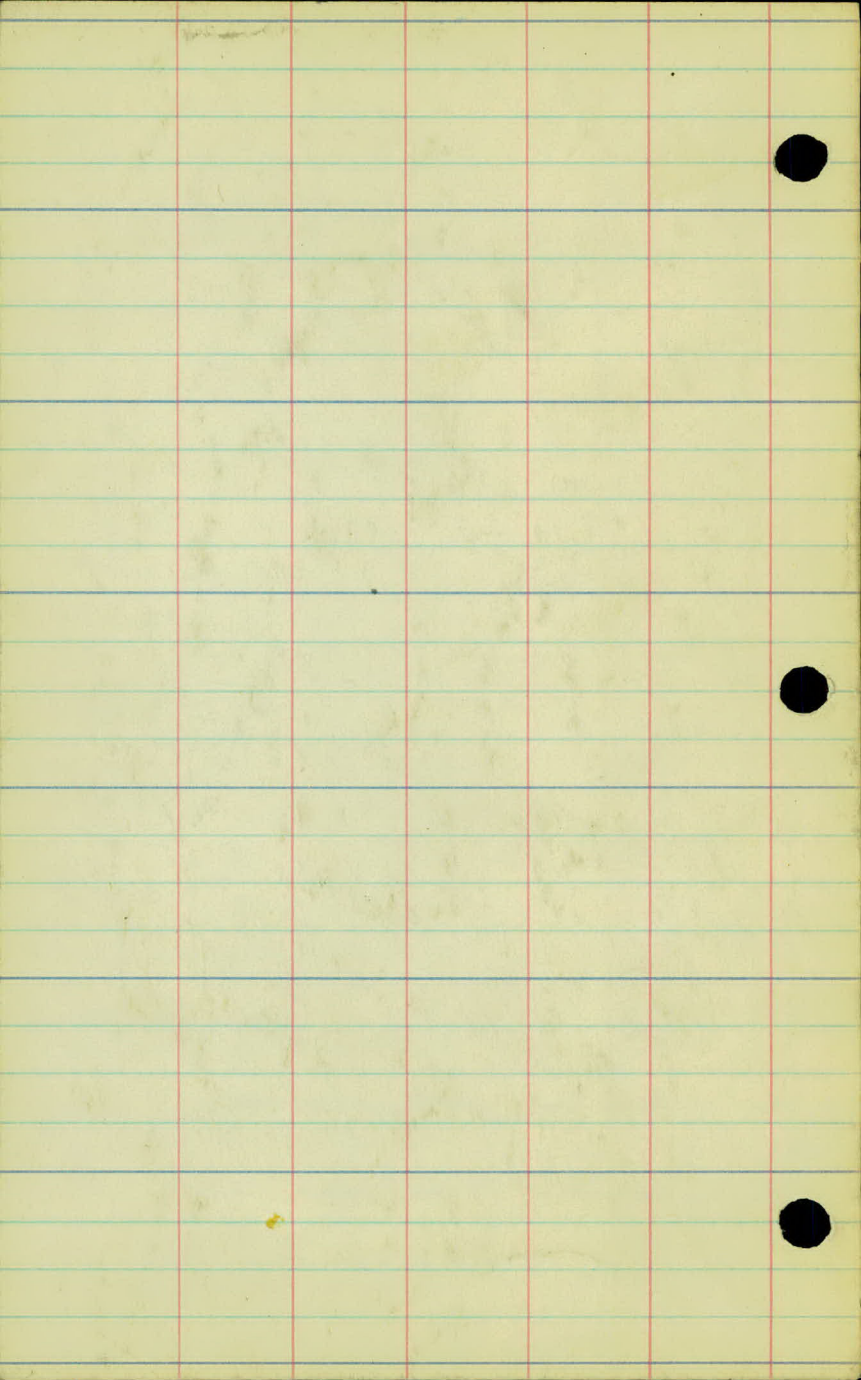
Sounding #14 On Φ at Sta. 65+00
0 to 9' Soft Muck
9' Sand.

Sounding #15 On Φ at Sta. 66+00
0 to 11' Soft Muck.
11' Sand.

Sounding #16 On Φ at Sta. 67+00.
0 to 3' Muck.
3' Sand.

Sounding #17 On Φ at Sta. 68+00
0 to 2' Muck
2' Sand.

2-14-27.



East Ave.

Rd. 96 H 95

Check Levels from Co. Rd. A.
& White Bear Ave to East Ave
& E. Minnehaha St.

Sta.	+	H. I	-	Elev.
B. M.	10.08	976.95		966.87
	5.04	979.63	2.36	974.59
	1.54	969.57	11.40	948.03
	1.72	960.12	11.17	958.40
	1.12	949.18	12.06	948.04
B. M.	0.42	942.18	7.42	941.74
	2.38	939.60	4.94	937.22
	6.95	937.30	7.25	930.35
	8.72	944.12	1.70	935.40
B. M.	4.67	948.48	0.31	949.81
	12.37	960.31	0.56	947.92
	9.06	968.77	0.40	959.71
	2.62	947.55	3.84	964.93
	2.43	957.65	12.33	955.22
B. M.	0.03	955.75	1.93	955.72
	3.99	959.10	4.44	949.11
	10.42	957.54	5.98	947.12
	0.68	950.91	7.31	950.23
	0.39	940.90	10.40	940.51
B. M.	7.14	946.33	1.73	939.17
	10.51	955.64	1.20	945.13
	3.16	956.56	2.24	953.40
	2.75	951.70	2.61	948.95
	1.07	945.70	7.07	944.63
	5.50	942.78	8.42	937.24
	7.62	948.59	1.81	940.97

4/26/27

P. E. Crane

H. M.

Top of Mont. White Bear Ave & Co. Rd A^{1/2}

Top of Hyd. S.W. cor. Int. Larp. & White Bear Ave.

Top of Hyd. Int. Como-Phalen Ave & White Bear Ave

Top of Hyd. Int. Maryland & White Bear Ave.

Top of Hyd. Int. Brand St. & White Bear Ave.

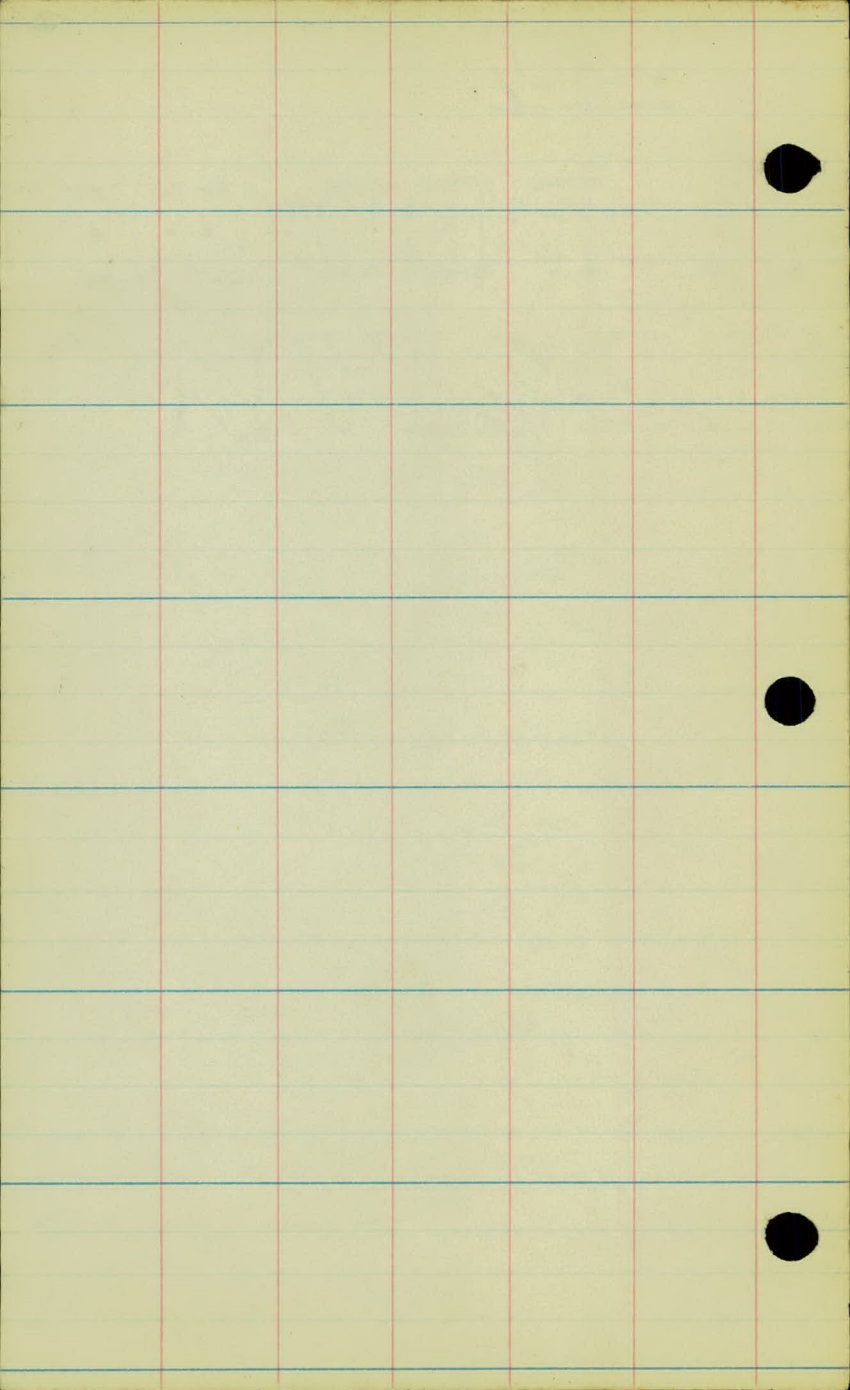
Top of Hyd. Int. Hazel Ave & Minneapolis St.

Sta.	+	H.I.	-	Elev.
		748.59		
	7.00	952.04	3.55	945.04
	12.55	963.42	1.17	950.87
	11.84	974.87	0.39	963.03
	12.71	986.69	0.89	973.98
	10.86	996.61	0.94	985.75
13. M.			0.87	995.74

Top of Hyd. N.W. Cor. of East Ave & Minnehaha St.

975.58

Nt. 579, 75790 85' 174



East Ave.

Rd 9th # 75

Check Levels from East Ave
& Maryland to White Bear Ave &
Co Rd. 17th.

Sta.	+	H. I.	-	Elev.
B.M.	8.45	984.03		975.58
	12.32	995.21	1.14	982.89
	1.66	984.43	12.44	982.77
	12.52	992.79	4.16	980.27
	4.81	986.70	10.90	981.89
	3.93	980.54	10.11	976.59
	6.81	985.10	2.23	978.29
	1.05	973.93	12.22	972.88
	2.67	967.85	8.75	965.18
	2.48	968.68	1.65	966.20
	0.25	959.26	9.67	959.01
	1.10	947.95	12.41	946.85
B.M.	0.17	943.99	4.13	943.82 943.81
	1.90	937.02	8.87	935.12
	9.71	940.59	6.14	930.88
	3.77	942.47	1.89	938.70
B.M.	7.07	948.84	0.70	941.77 941.76
	9.84	957.45	1.23	947.61
	9.87	966.63	0.69	956.74
	11.00	976.75	0.88	965.75
	2.55	978.32	0.98	975.77
B.M.			11.44	966.88 966.87

2-15-27.

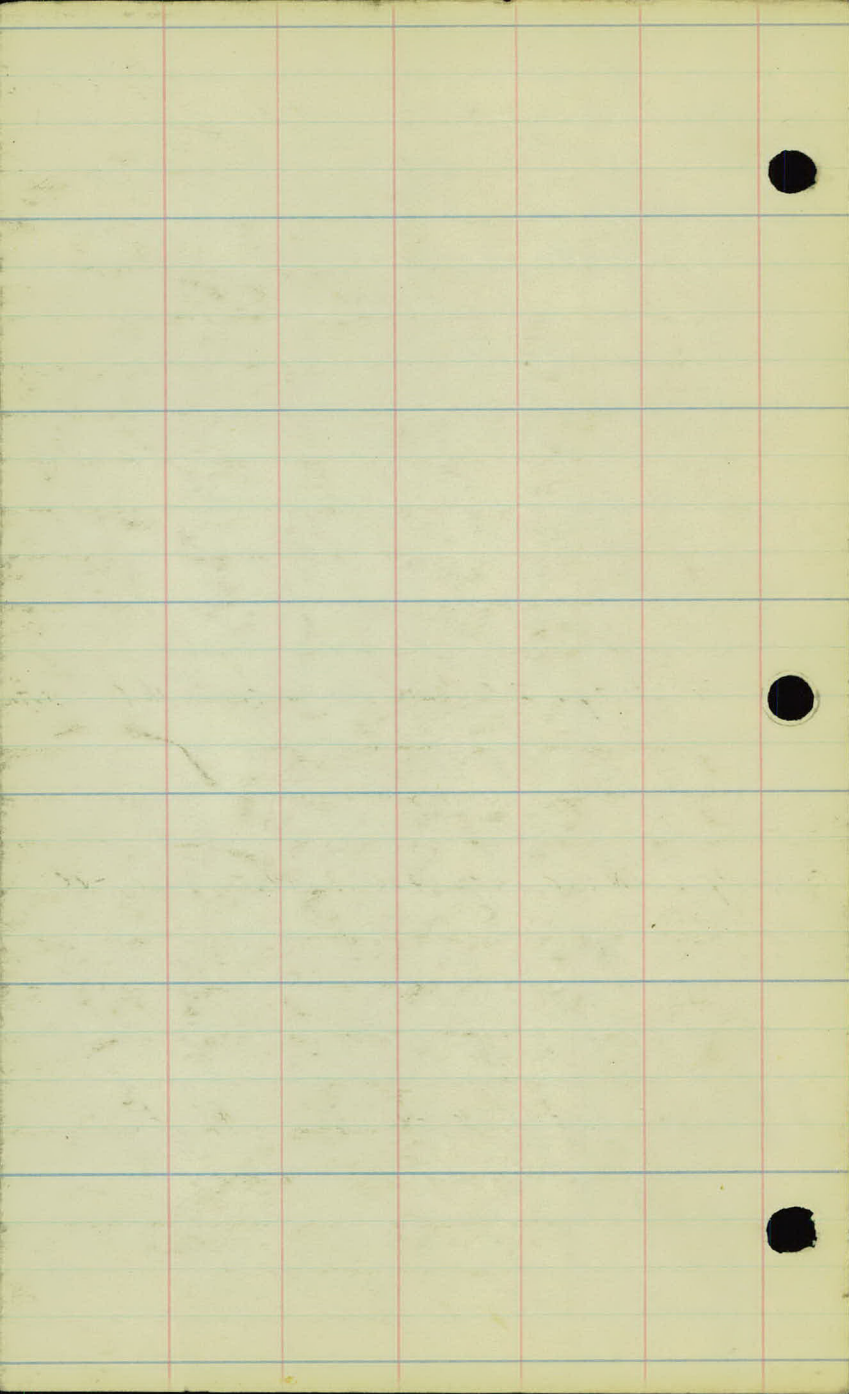
P. J. Crane
E. F. Fritz.

Spk. in T.P. 85 Mt. Sta. 75-190.

Top of Hyd. Int. Coona-Phalen Ave. & White Bear Ave.

Top of Hyd. S.W. Cor. Larp. Ave. & White Bear Ave.

Top of Mont. White Bear Ave. & Co. Rd. 7^e.



LATITUDE & DEPARTURE CHART.

Proj. East Ave. From E. Minnehaha St. To Maryland St.

Main Line
P.O.T.

"A" Line
P.T.

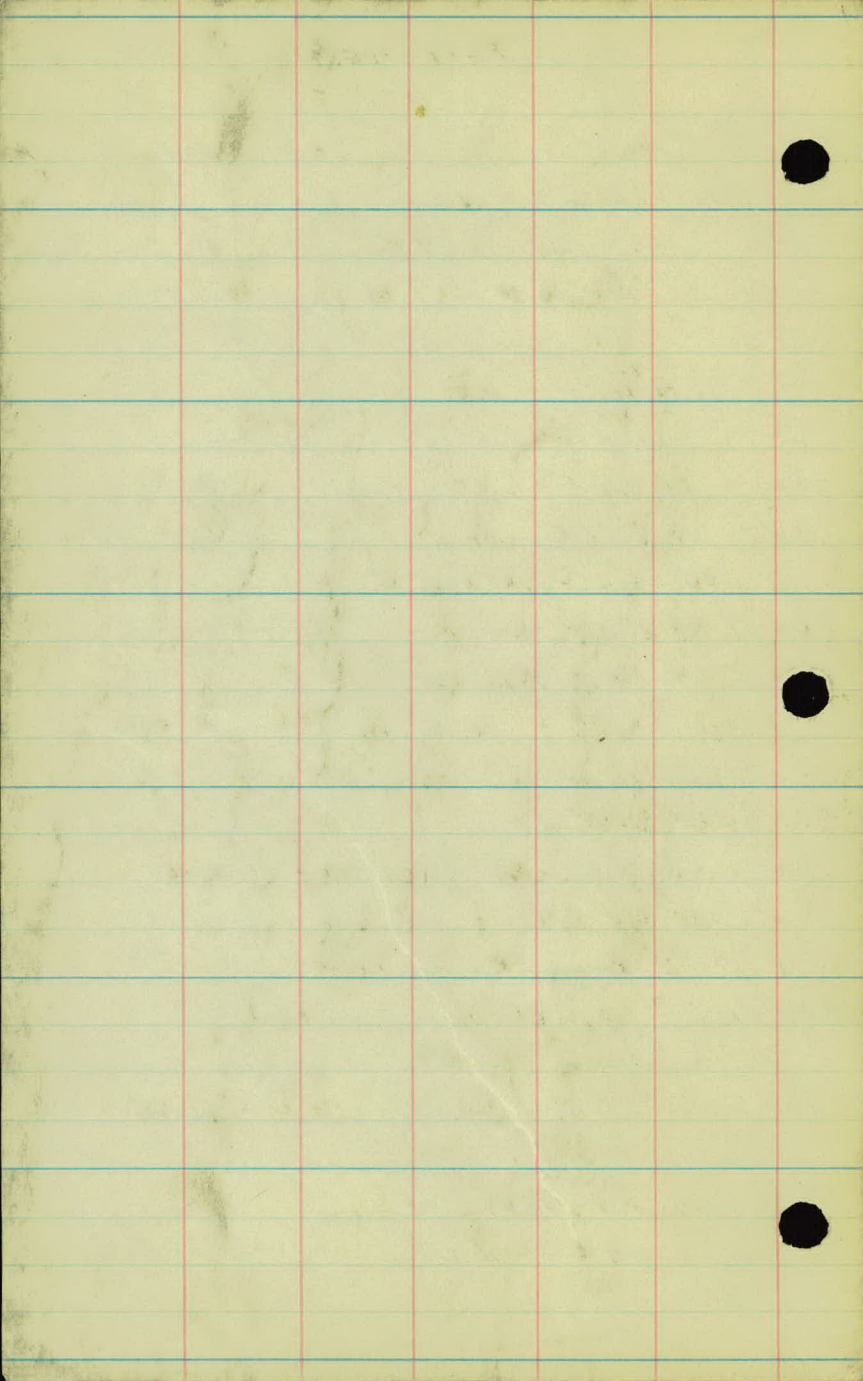
Sta.	Dist.	Deflection		Course	Latitude		Departure		Totals	
		L.	R.		+ N	- S	+ E	- W	Latitude	Departure
0+00									0.0	0.0
	2640.6			N. 00° 00' E.	2640.6		0.0			
26+40.6	1321.7		89° 37'	N. 89° 37' E.	8.8		1321.7		2640.6	0.0
38+38.4	1438.8	88° 58'		N. 00° 39' E.	1438.7		16.3		2649.4	1321.7
51+91.75	1206.0			N. 00° 39' E.	1205.9		13.7		4088.1	1338.0
63+97.7	1324.1	91° 05'		S. 89° 34' W.		10.0	1324.1		5294.0	1351.7
75+90.4									5284.0	27.6
26+40.6	477.4		00° 36'	N. 00° 36' E.	477.4		5.0		2640.6	0.0
31+18	883.1		93° 14'	S. 86° 10' E.		50.0	881.1		3118.0	5.0
39+00	585.9	44° 30'		N. 49° 20' E.	381.8		444.4		3068.0	886.1
44+61.5	173.2	48° 40'		N. 00° 40' E.	173.2		2.0		3449.8	1330.5
46+12.71									3623.0	1332.5
51+91.75	563.0			N. 00° 39' E.	563.0		6.9		4088.1	1338.0
57+54.7	1323.3	91° 05'		S. 89° 34' W.		10.0	1323.3		4651.1	1344.4
69+46.58	643.0	91° 03'		N. 00° 37' E.	643.0		7.0		4641.1	21.1
74+58.30									5284.1	28.1

H. J. Goldberg

EAST AVE.
PROJ. 27-75.

Plans in hand. inspection. 5-4-27 O.R.V.K.
P.R.B.

- ✓✓ 0+73 - Remove - P. 24" P₃
- ✓✓ 1+00 to 2+00 - Cl. + Gr. 7 Trees
- ✓✓ 1+50 - F.E. R. Rep. 24" x 32' C.M. from 39+04.
- ✓✓ 2+60 - " Lt. - No cult. req.
- ✓✓ 0+25 to 7+25 - Rt. G.R.
- ✓✓ 0+25 to 1+75 - Lt. G.R.
- ✓✓ 4+50 to 7+50 - Lt. G.R.
- ✓✓ 5+30 - Remove 12" x 30' C.M. - P. 18" P₃
- ✓✓ 5 to 8 - Cl. 6 T. Gr. 1 T.
- ✓✓ 9+67 - F.E. Lt. - No cult. req.
- ✓✓ 16+94 - F.E. - Rt. - P. 15" x 24' C.M.
- ✓✓ 26+37 - Road Rt. Leave cult.
- ✓✓ 26+37 - F.E. Lt. P. 15" x 24' C.M.
- ✓✓ 27+80 - F.E. Rt. P. 15" x 24' C.M.
- ✓✓ 28+15 - Remove 12" x 22' C.M. - P. 18" P₃
- ✓✓ 29 to 32 - Cl. + Gr. 9 T.
- ✓✓ 30+30 - F.E. Lt. - Rep. 12" x 24' C.M. from 32+95..
- ✓✓ 32+95 - Imp. 12" x 24' C.M. Remove. No cult. req.
- ✓✓ 35+85 - Lt. - Remove - Rep. 12" x 24' C.M.
- ✓✓ 34+50 to 37+00 Cl. + Gr. 10 T.
- ✓✓ 39+04 - Remove. P. 24" P₃.
- ✓✓ 43+83 - F.E. Rt. - Rep. 12" x 24' C.M. from 46+91.
- ✓✓ 46+91 - Remove. P. 18" P₃.
- ✓✓ 43+75 to 47+25 - G.R. on Lt.
- ✓✓ 46 to 47 - Cl. 4 T.



Plans - 117 - Hand.

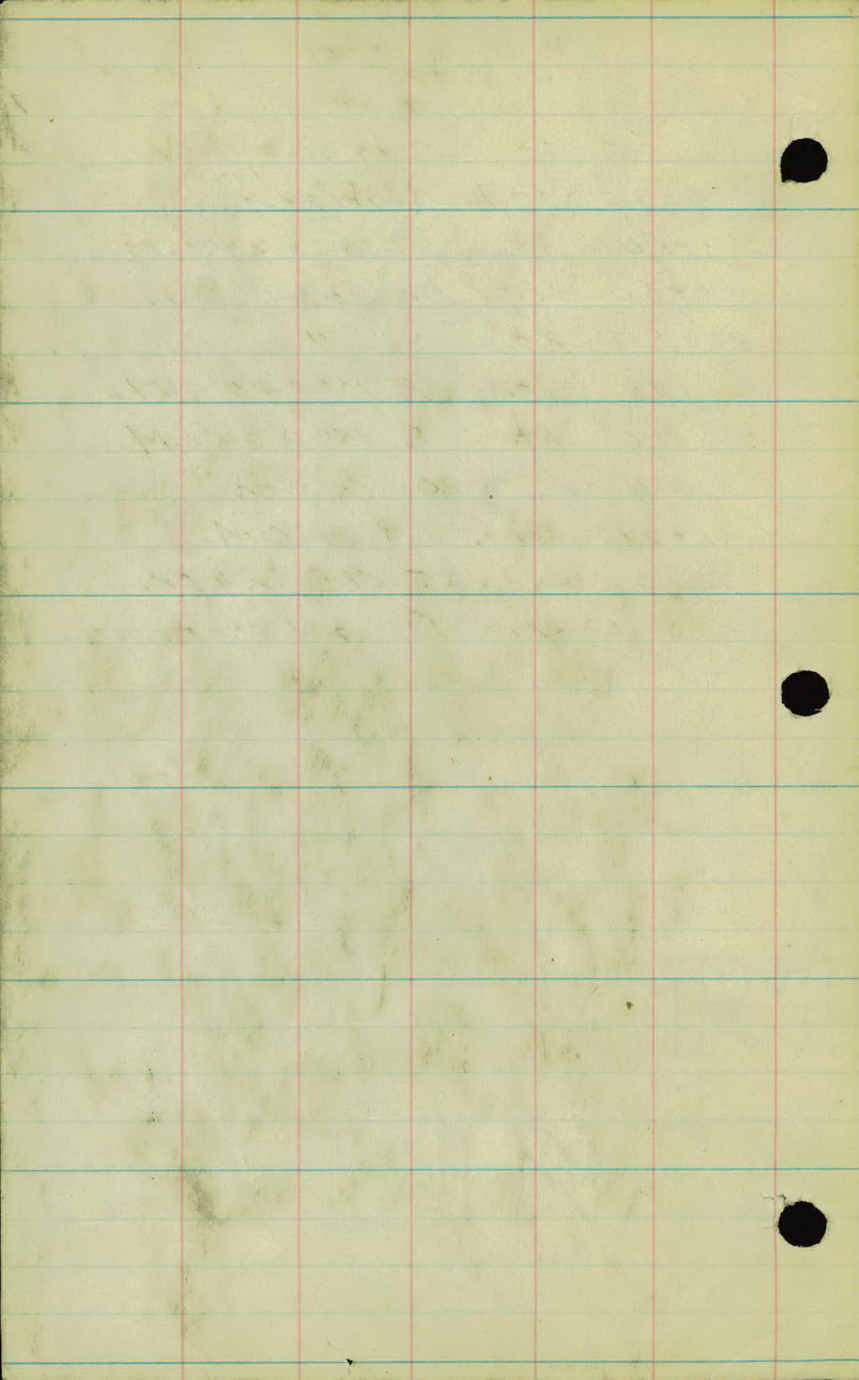
O.R.V.K.

Pl. #75
Maintenance

M.W.C.

June 20, 1927

- ✓ 1165 Lt. P. 15" X 24' C.M.
- ✓ sta 3 - sta 7 Cl. 24' tr
Gr. 38' "
- ✓ 3+00 Rt. P. 15" X 24' C.M.
- ✓ 3+30 Lt. No culv. Req.
- ✓ 4+85 Rt. " " "
- ✓ 10+78 Rt. P. 15" X 24' C.M.
- ✓ 13+20 Rt. P. 15" X 24' C.M.
- ✓ sta 16 to sta 20 Cl. 11' tr
Gr. 30' tr
- ✓ 21+26 Rem. P. 24" C.M.
- sta 23 to sta 25 Cl & Gr. 4' tr.
- Gr. taken from X sections.



EAST AVENUE

Prop. 28-75

X-sec. for line change -

Sta. 25+16.66 to 27+50

STA	B.S.	H.I.	F.S.	R.R.	ELEV.
B.M.	5.92	981.08			975.16
25+16.66				4.9	976.2
+50				5.4	75.7
26				4.6	76.5
+50				3.6	77.5
27				2.2	78.9
+50				1.6	979.5

O.R.V.K.
A.O.N. 7-18-28

LT.

RT.

Sp. in P.P. 28' Lt. - Sta. (25+16.66 - 28')

6.0/33

4.7/33

6.1/33 5.9/23 6.5/22 6.5/18 5.2/16

6.2/4 6.3/8 5.7/9 5.8/33

5.3/33 5.3/21 5.6/20 5.4/16 4.7/12

4.6/3 5.8/5 5.8/7 5.2/8 5.2/33

3.7/33

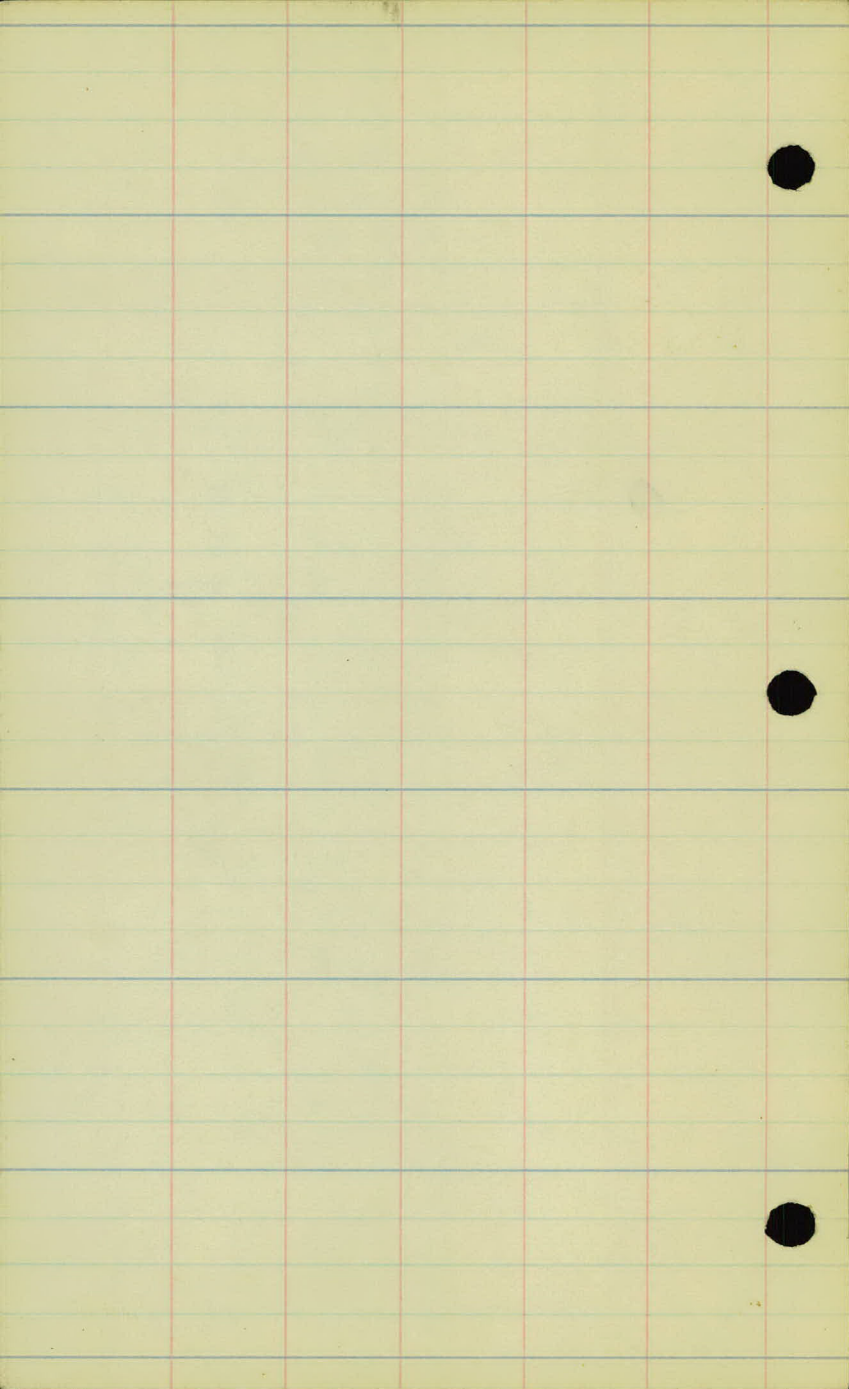
3.7/3 4.5/6 4.6/7 4.0/8 3.8/33

2.2/33 2.2/21 3.1/20 3.1/15 2.4/14

2.0/12 3.4/4 3.5/7 2.1/8 2.6/33

1.3/33 1.3/21 2.4/20 2.4/15 1.7/14

1.7/12 2.9/3 3.0/5 1.3/16 1.3/33



EAST AVENUE

PROJ. 28-75

X-sec. for line change

Sta. 61+50 to 63+97.70

STA.	B.S.	H.I.	F.S.	R.R.	ELEV.
B.M.	3.75	955.58			951.83
T.P.	4.30	958.45	1.43		954.15
61+50				8.5	950.0
62				28	49.7
+50				8.3	50.2
63				7.6	50.9
+50				5.0	53.5
+97.70				1.7	956.8

O.R.V.K.
A.O.N. 7-18-28

LT.

RT.

Sp. in F.P. Rt. Sta. 57+62

8.3/
33

7.8/
33

8.8/
33

8.6/
33

8.5/
33

8.1/
33

6.2/
33

7.8/
33

4.4/
33

6.6/
33

1.3/
33

3.4/
33

